

STIC Search Report Biotech-Chem Library

STIC De pass Tresting Number: 181503

TO: James Schultz

Location: rem/2D18/2C18

Art U. : 1135

Wednes ; March 15, 2006

Case Linal Number: 10/726422

From: Paul Schulwitz

Location: Biotech-Chem Library

REM-1A65

Phone: 571-272-2527

Paul.schulwitz@uspto.gov

Sea

Examiner Schultz,

Please review the attached search results.

If you have a requestions or if you would like to refine the search query, please feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwing the 1940 Technical for a mation Specialist

REM-1A65

571-272-2527

or in an oh North side

.



THIS PAGE BLANK (USPTO)

ME'

STIC-Biotech/ChemLib

181503

From:

Schultz, James

Sent:

Monday, March 06, 2006 5:25 PM

To: Subject:

STIC-Biotech/ChemLib Seq Search 10/726,422

Hello,

Could you please run a standard, length limited nucleotide sequence search against SEQ ID NO: 1 in the above entitled application, which returns hits between 10 and 40 nucleotides?

Thanks, Doug Schultz

James Douglas Schultz, PhD
Primary Examiner
AU 1635 (Biotechnology)
United States Patent and Trademark Office
(Office) REM 2D18
(Mail) REM 2C18
(571) 272-0763

ECENTEI 12 - 7 - 201

Searcher:
Searcher Phone:
Date Searcher Picked up:
Date completed:
Searcher Prep Time:
Online Time:

Type of Search

NA#_____ AA#:

S/L:____ Oligomer:____
Encode/Transl:____
Structure #:____Text:___
Inventor:____ Litigation:____

Vendors and cost where applicable STN:

DIALOG:
QUESTEL/ORBIT:
LEXIS/NEXIS:
SEQUENCE SYSTEM:
WWW/Internet:
Other (Specify):

THIS PAGE BLANK (USPTO)

AR410855 Sequence
AR428667 Sequence
38 AR253712 Sequence
38 AR253712 Sequence
37 165110 Sequence
37 165110 Sequence
38 AR253706 Sequence
38 AR253706 Sequence
38 AR253706 Sequence
AR253706 Sequence
AR253706 Sequence
AR253708 Sequence
AR253709 Sequence
AR253718 Sequence
AR253718 Sequence
AR254759 Sequence
AR696763 Sequence
AR696769 Sequence
AR696954 Sequence
AR696954 Sequence
AR696954 Sequence
AR696954 Sequence

Run on:

```
Query Match 5.8%; Score 24; DB 6; Length 24; Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                               Tobase 1 to 24)
Zetter, B.R. and Bao,L.
Method for prognosis of prostate cancer
Patent: US 55586B1-A 3 12-JAN-1999;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. .24
/organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                           24 bp
Sequence 3 from patent US 5858681.
AR028459
AR028459.1 GI:5940432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24 bp
Sequence 4 from patent US 5858681.
AR028460
                                                                                                                                                                                                                                                                                                            ALIGNMENTS
                  169114
AR253712
AX696767
169108
169110
169116
AR253704
                                                                                                                                                                                       AX676188
BD218044
AR274270
AX349870
AR084938
AR084954
CQB78812
AR616281
I 69081
                                                                                                                                               AX696761
AX696763
                                                                                                                                                                   AX696769
AR070719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24
                                                                                                                                       AX696759
                                                                                                                            AR253714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TATCAGCTAGTGGCTGCACCCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AR028460.1 GI:5940433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 (bases 1 to 24)
Zetter, B.R. and Bao, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown.
                                                                                                                                                                                                                                                                                                                                                             LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
AR028460/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                           RESULT 1
AR028459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
ORIGIN
  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AR028459 Sequence
AR028460 Sequence
AR052451 Sequence
15553 Sequence
163534 Sequence
163534 Sequence
18355 Sequence
189355 Sequence
AR370452 Sequence
AR45187 Sequence
AK645187 Sequence
AK645187 Sequence
AK645187 Sequence
AK645187 Sequence
AK645187 Sequence
AK645187 Sequence
169104 Sequence
169104 Sequence
169104 Sequence
                                                                     March 12, 2006, 05:31:21; Search time 2713 Seconds (without alignments) 8632.327 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX352154 Sequence
AR099439 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AX556577 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                         412
1 TATCAGCTAGTGGCTGCACC.....AAATGTGTTTTCCACTGCTC
        GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                               1921270
                                                                                                                                                                                        5883141 segs, 28421725653 residues
                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                  - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AR028459
AR028460
AR028451
AR052452
163533
163534
189355
189355
AR370452
AR645186
AR645187
AR645187
AR6453702
AR653702
AR653702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AX556577
AX352154
AR099439
                                                                                                                                                        IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                     GenEmbl:*
1: gb_ba:*
1: gb_in:*
1: gb_om:*
1: gb_ow:*
1: gb_ow:*
1: gb_or:*
1: gb_or:*
1: gb_or:*
20_pr:*
20_br:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                               US-10-726-422-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query
Match Length
                                                                                                                                                                                                                                   length: 10
length: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Title:
Perfect score:
                                                                                                                                                                                                                                 Minimum DB seq
Maximum DB seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20.4
20.4
20.2
119.6
19.6
                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          444444444444
                                                  OM nucleic
                                                                                                                                       Sequence:
                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                            Database
```

PAT 29-SEP-1999

linear

DNA

169081 Sequence 35

ö

Gaps

ö

Result No.

O

0000

PAT 29-SEP-1999

linear

DNA

PAT 07-0CT-1997

TITLE JOURNAL FEATURES

ORIGIN

```
PAT 10-AUG-1998
                                                                                                                                                                              1 (Moses I to 24)
2 ctter, B.R. and Bao, L.
Human thymosin. beta. 15 gene, protein and uses thereof
Patent: US 663071-A 8 02-SEP-1997;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unclassified.

1 (bases 1 to 24)
Zetter, B.R. and Bao, L.
Human thymosin . beta. 15 gene, protein and uses thereof
Patent: US 663071-A 9 02-8EP-1997;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                 ch 5.8%; Score 24; DB 6; Length 24; l Similarity 100.0%; Pred. No. 4.6e+05; 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 24;
                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 5.8%; Score 24; DB 6; Le Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="unknown"
/wol_type="unassigned DNA"
                                                                                                                                                                                                                                                            1. .24
/organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24 bp
Sequence 9 from patent US 5663071,
163534
163534.1 GI:2481107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24 bp
Sequence 8 from patent US 5721337,
189355.1 GI:3409295
                                                           163533 24 bp
Sequence 8 from patent US 5663071.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                              1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
Unclassifted.
1 (bases 1 to 24)
Zetter, B.R. and Bao, L.
Human thymosin .beta.15
                                                                                          163533.1 GI:2481106
                                                                                                                                                      Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 24; Conserv
                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                          LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                              source
                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                               TITLE
                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
163534/c
                                RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 29-SEP-1999
                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                        PAT 29-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gapa
                                                                                                                                                      Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                      .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
Unclassified.
1 (bases I to 24)
2 cetter B.R. and Bao,L.
Human thymosin beta.15 gene, protein and uses thereof
Patent: US 5331033-A 9 03-NOV-1998;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                           Unclassified.

1 (bases 1 to 24)

2 Cetter, B.R. and Bao, L.

Human thymosin .beta.15 gene, protein and uses thereof

Patent: US 5831033-A 8 03-NOV-1998;

Location/Qualifiers
                                                                                                                     5.8%; Score 24; DB 6; Length 24;
100.0%; Pred. No. 4.6e+05;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / Match 5.8%; Score 24; DB 6; Length 24; Local Similarity 100.0%; Pred. No. 4.6e+05; nes 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 24;
                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 5.8%; Score 24; DB 6; Le Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0;
Method for prognosis of prostate cancer
Patent: US 5858681-A 4 12-JAN-1999;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA
                                                                                                                                                                                                                                                                                          DNA

    .24
    /organism="unknown"
    /mol_type="unassigned DNA"

                                           1. .24
/organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 bp
Sequence 9 from patent US 5831033.
AR052452.
AR052452.1 GI:5975816
                                                                                                                                                                                                                                                                                       AR052451 24 bp
Sequence 8 from patent US 5831033.
AR052451.1 GI:5975815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                 356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                  24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                    24; Conservative
                                                                                                                     Query Match
Best Local Similarity
Matches 24; Conserva
                                                                                                                                                                                                                                                                                                                                                                  Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
                                                                                                                                                                                                                                                                                                                                                                                Unknown,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                source
                                                                                                                                                                                                                                                                                                   DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 4
AR052452/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
```

REFERENCE AUTHORS TITLE JOURNAL FEATURES

RESULT 3 AR052451

Best Loca Matches

ORIGIN

ö

Gaps

ö

PAT 07-0CT-1997

ö

Gaps

ö

ORGANISM

REFERENCE AUTHORS TITLE JOURNAL FRATURES

ORIGIN

ï

JOURNAL

PEATURES

ORIGIN

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                PAT 12-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PAT 27-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 27-FEB-2003
                                                                                                                                                                                                              1 (bases 1 to 24)
Zetter, B.R. and Bao, L.
Antibodies specific for human thymosin .beta.15 protein and uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zetter, B.R. and Bao, L. Thymosin Blacker in diagnosis and prognosis of cancer Thymosin Blz as a marker in diagnosis and prognosis of cancer Patent: EP 1270745-A 3 02-JAN-2003; CHILDREN'S MEDICAL CENTER CORPORATION (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 5.8%; Score 24; DB 6; Length 24; Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
5.8%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                           Patent: US 6300479-A 9 09-OCT-2001;
Children's Medical Center Corporation; Boston, MA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                  mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. .24
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
                                                                         24 bp
Sequence 9 from patent US 6300479.
AR370453
AR370453.1 GI:34607138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3 from Patent EP1270745.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24 bp
Sequence 4 from Patent EP1270745.
AX645187.1 GI:28611009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TATCAGCTAGTGGCTGCACCCGCG 24
   1 TATCAGCTAGTGGCTGCACCGGG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                               1. .24
/organism="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                           /mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AX645186.1 GI:28611008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unidentified unclassified sequences.
                                                                                                                                                                              Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 unidentified
                                                                                                                                                                                                                                                             thereof
                                                                                                                                                               Unknown
                                                                                            DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                RESULT 10
AR370453/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
AX645187/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
ORGANISM
                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX645186
LOCUS
                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                ö
                                                                                                                                                                                                                                                                                             PAT 10-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAT 12-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 24)
Zetter, B.R. and Bao, L.
Antibodies specific for human thymosin .beta.15 protein and uses
                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 5.8%; Score 24; DB 6; Length 24; Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                Length 24;
                                                                                                             Query Match 5.8%; Score 24; DB 6; Length 24; Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        / Match 5.8%; Score 24; DB 6; Length 24; Local Similarity 100.0%; Pred. No. 4.6e+05; Res 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent: US 6300479-A 8 09-OCT-2001;
Children's Medical Center Corporation; Boston, MA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                     Unclassified.

1 (bases 1 to 24)
Zetter, P.K. and Bao.L.
Human thymosin. beta.15
Patent: US 5721337-A 9 24-FEB-1998;
Location/Qualifiers
Patent: US 5721337-A 8 24-FEB-1998;
Location/Qualifiers

    .24
    /organism="unknown"
    /mol_type="unassigned DNA"

                                                                                                                                                                                                                                                                                        24 bp
Sequence 9 from patent US 5721337.
189356
                                             /organism="unknown"
/wol_type="unassigned DNA'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AR370452 24 bp
Sequence 8 from patent US 6300479.
AR370452
AR370452.1 GI:34607137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .24
/organism="unknown"
/mol_type="mRNA"
                                                                                                                                                                             1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                             1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                           I89356.1 GI:3409296
                                   1. .24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
                                                                                                                                                                                                                                                                                                                                                                            Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Si
Matches 24,
```

RESULT 9
AR370452
LOCUS
DEFINITION

ORGANISM ACCESSION VERSION KEYWORDS SOURCE

REFERENCE AUTHORS TITLE

JOURNAL

FEATURES

ORIGIN

DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM

189356/c LOCUS

RESULT 8

셤

AUTHORS TITLE JOURNAL FEATURES

ORIGIN

REFERENCE

```
DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                  RESULT 15
AX696757/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                   음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                      PAT 04-FEB-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear PAT 20-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 36)
Bauer, S. Christopher., Abrams, M.Allen., Braford-Goldberg, S.Ruth., Caparon, M. Helena., Easton, A. Michael., Klein, B. Kure., McKearn, J. Patrick., Olins, P., Paik, K., Polazzi, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thomas, J.Warren.
Interleukin-3 (IL-3) mutant polypeptides and their recombinant
                                           Zetter,B.R. and Bao,L.
Thymosin B15 as a marker in diagnosis and prognosis of cancer Patent: EP 1270745-A 4 02-JAN-2003;
CHILDREN'S MEDICAL CENTER CORPORATION (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bauer, S.C., Abrams, M.A., Braford-Goldberg, S.R., Caparon, M.H., Easton, A.M., Klein, B.K., McKearn, J.P., Olins, P., Paik, K., Polazzi, J. and Thomas, J.W.
Methods of using interleukin-3 (IL-3) mutant polypeptides for ex-vivo expansion of hematopoietic stem cells
Patent: US 6479261-A 374 12-NOV-2002;
                                                                                                                                                                                                                                                                       Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 5.0%; Score 20.4; DB 6; Length 36; Best Local Similarity 80.0%; Pred. No. 3.1e+06; Matches 24; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                 ch 5.8%; Score 24; DB 6; Length 24; l Similarity 100.0%; Pred. No. 4.6e+05; 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent: US 5677149-A 374 14-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                               36 bp Dl Sequence 374 from patent US 5677149. 169104.1 GI:2831226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 374 from patent US 6479261.
AR253702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 TCTTCCTTCGAAGGAAACTATCCAGCAGGA 210
                                                                                                                                               /organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 TGTTCCTTCGAAGGTTATTTTCCATCAGGA
                                                                                                                                                                                                                                                                                                   356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                      24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1. .36
/organism="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR253702.1 GI:27302130
               unclassified sequences.
                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 24, Conserval
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 13
169104/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
AR253702/c
LOCUS
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                              TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                               AUTHORS
                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                               PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                   ORIGIN
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                               PAT 31-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                  Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bauer, S.C., Abrams, M.A., Braford-Goldberg, S.R., Caparon, M.H., Easton, A.M., Klein, B.K., Mckearn, J.P., Olins, P.O., Paik, K., Polazzi, J.O. and Thomas, J.W.
Interleukin-3 (11-3) mutant polypeptides
Patent: EP 1289364-A 374 12-FEB-2003;
G.D. SEARLE & CO. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 5.0%; Score 20.4; DB 6; Length 36; Best Local Similarity 80.0%; Pred. No. 3.1e+06; Matches 24; Conservative 0; Mismatches 6; Indels
                                                                                                                                                           Query Match 5.0%; Score 20.4; DB 6; Length 36; Best Local Similarity 80.0%; Pred. No. 3.1e+06; Matches 24; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
Pharmacia Corporation; St. Louis, MO Location/Qualifiers
                                                                                                                                                                                                                                                              181 TCTTCCTTCGAAGGAACTATCCAGCAGGA 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 TCTTCCTTCGAAGGAAACTATCCAGCAGGA 210
                                                                                                                                                                                                                                                                                                                                                                                                                     36 bp 1
Sequence 374 from Patent EP1283264.
AX696757
AX696757.1 GI:29419867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
                                                             /organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                          31 TGTTCCTTCGAAGGTTATTTTCCATCAGGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31 rerriccirceaacerrarrrrccarcacea 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: March 12, 2006, 06:43:56 Job time : 2714 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          unidentified unclassified sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unidentified
```

```
Aav05151 Human thy
Aav34008 Rat thymo
Aav34008 Rat thymo
Aav15084 Human thy
Aaz86809 PCR prime
Aaz8680 PCR prime
Aaz8680 PCR prime
Aad23794 Rat prost
Adf61760 Rat thymo
Adf61760 Rat thymo
Adf61760 Rat thymo
Adf61760 Human thy
Aaz26596 Human thy
Aaz26596 Human thy
Adc26596 Human thy
Adc26596 Human thy
Adc26596 Human thy
Adc36596 Human thy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aat98004 Human thy
Aat98003 Human thy
Aav05152 Human thy
Aav05151 Human thy
                                                                     (without alignments)
5673.251 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No, is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                        1 TATCAGCTAGTGGCTGCACC......AAATGTGTTTTCCACTGCTC 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                           March 12, 2006, 04:32:20 ; Search time 484 Seconds
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                               4583304
                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                          4996997 segs, 3332346308 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT98003
AAV05152
AAV05151
AAV34009
AAV34008
AAV15084
AAV15084
AAV26880
AAZ86880
AAZ86880
AAD23794
AAD23793
AAP641750
AAP641750
                                        - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA26596
ADC02914
ADI58589
                                                                                                                                            IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                            geneseqn2001bs:*
geneseqn2002as:*
geneseqn2002bs:*
geneseqn2003as:*
                                                                                                                                                                                                                                                                                                                                                                                              geneseqn2003cs:*
geneseqn2003ds:*
                                                                                                                                                                                                                                                                                                                                                                                                                   genesegn2004as:*
genesegn2004bs:*
                                                                                                                                                                                                                                                                                                                                                                                     geneseqn2003bs:*
                                                                                                                                                                                                                                                                                                                                   geneseqn2001as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                        geneseqn2005s:*
                                                                                                                                                                                                                                                                                                              geneseqn1990s:*geneseqn20000s:*
                                                                                                                                                                                                                                                                                                     geneseqn1980s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                                                                                         N Geneseq 21:*
                                                                                                   US-10-726-422-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length
                                                                                                                                                                                                                  length: 10
length: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    101
                                                                                                                                                                                                                   ged
sed
                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21.2
20.4
20.4
                                                                                                               Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4444444444444444444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
                                                                                                                                                                                                                  Minimum DB
Maximum DB
                                        OM nucleic
                                                                                                                         Sequence:
                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                         Database
                                                             Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š.
                                                                                                     Title:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
```

Abs52117 Human but Aac63564 Miniseque Ab135524 Immunosti	44	Aax81507 Primer us Adc02924 Ex vivo s Adi58599 Human int Adc0205 Ex vivo	E A A A A A A A A A A A A A A A A A A A	Adis8601 Human inc Adis8591 Human inc Adis8593 Human inc Adis8595 Human inc Aax61014 PCR prime Abq74074 Microsate Abm86761 Ebkaryoti	ੇ `` ਜਜ
ABS52117 AAC63564 ABL35524	ADC36204 ADZ71344 ABK92523	AAX81507 ADC02924 ADI58599	ADC02918 ADC02916 ADC02920	ADI58601 ADI58591 ADI58593 ADI58595 AAX61214 ABN8676761	ABL91386 ABL91386 AAT702951 ADC02891 ADC03071
৩ ল ৩	14 9	2222	2222	22222	10,500
25 40 40	33 40 40	999	9 9 9 9	, , , , , , , , , , , , , , , , , , ,	0 4 4 3 4 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4
444	7.4 7.7	4 4 4 4 - 0 0 4	444	<u>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 </u>	
20.2 19.6 19.6	19.4 19.4 19.4	19.2 19	18.8.8	18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18.7 18.2 18.2 18
c 21			33333	0 0 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 4 4 4 4 5 11 42 6 4 6

ALIGNMENTS

Primers AAT98003-T98008 are used to PCR amplify the nucleotide sequence encoding a human thymosin beta-15, a novel protein that binds and sequesters G-actin and also regulates cell motility in prostatic carcinoma cells. The sequence was isolated from a DNA library constructed from polyA RNA purified from a highly metastatic cell line AT3.1 derived from Dunning R3327 rat prostatic adenocarcinoma cells. The DNA encoding thymosin beta-15 - which binds G-actin and regulates cell motility, useful for detecting cancers in e.g. prostate, lung tissues, especially metastatic cancers. Human, thymosin beta 15; G-actin; cell motility; adenocarcinoma; ss; metastasis; PCR; amplification; primer; detection; diagnosis; cancer. Human thymosin beta-15 reverse primer T-beta 15 AAT98004/c ID AAT98004 standard; cDNA; 24 BP. Example, Col 12; 22pp; English (CHIL-) CHILDRENS MEDICAL CENT 96US-00664856. 96US-00664856 10-MAR-1998 (first entry) WPI; 1997-447933/41. Bao L; Synthetic. Homo sapiens 17-JUN-1996; 17-JUN-1996; US5663071-A 02-SEP-1997 Zetter BR, AAT98004;

N

```
AAV05152 standard; cDNA; 24 BP
                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV05151;
                                                                  AAV05152;
                              AAV05152/c
                RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primers AAT98003-T98008 are used to PCR amplify the nucleotide sequence encoding a human thymosin beta-15, a novel protein that binds and sequesters G-actin and also regulates cell motility in prostatic carcinoma cells. The sequence was isolated from a cDNA library constructed from polyA RNA purified from a highly metastatic cell line AT3.1 derived from Dunning R3327 rat prostatic adenocarcinoma cells. The nucleic acid and proteins can be used to detect increased expression of the thymosin beta 15 gene in non-testicular cells which has a high correlation to cancers, e.g. prostate, lung, melanoma and breast cancers, especially metastatic cancers
nucleic acid and proteins can be used to detect increased expression of the thymosin bera 15 gene in non-testicular cells which has a high correlation to cancers, e.g. prostate, lung, melanoma and breast cancers, especially metastatic cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA encoding thymosin beta-15 - which binds G-actin and regulates cell motility, useful for detecting cancers in e.g. prostate, lung tissues,
                                                                                                                                                                                                                                                                                                                                               Human; thymosin beta 15; G-actin; cell motility; adenocarcinoma; 88;
metastasis; PCR; amplification; primer; detection; diagnosis; cancer.
                                                                                                                       Gaps
                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 th 5.8%; Score 24; DB 2; Length 24; Similarity 100.0%; Pred. No. 6.6e+03; 24; Conservative 0; Mismatches 0; Indels
                                                                                         Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 6.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                  Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                        Human thymosin beta-15 forward primer T-beta 15.
                                                                                                                                                356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                            24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                         AAT98003 standard; cDNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example, Col 12; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           especially metastatic cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-00664856.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96US-00664856
                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-447933/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zetter BR, Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-JUN-1996;
                                                                                                                                                                                                                                                                                              10-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                              JS5663071-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                   AAT98003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Loca
Matches
                                                                                                                                                                                                                 RESULT 2
AAT98003
                                                                                                                                                                                                                                                                  ន្តដ្ត់ក្តុខ្លួន
                                                                                                                                                 ઠે
                                                                                                                                                                         셤
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human thymosin beta 15; G-actin; cell motility; prostatic carcinoma; antibody; cancer; diagnosis; prognosis; prostate; lung; melanoma; breast; ss; PCR; primer; amplification.
                                                                                                Human thymosin beta 15; G-actin; cell motility; prostatic carcinoma; antibody; cancer; diagnosis; prognosis; prostate; lung; melanoma; breast; ss; PCR; primer; amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Thymosin beta 15 primers AAV05151 and AAV05152 are used for the amplification of thymosin beta 15 gene. Human thymosin beta 15 has the ability to bind and sequester G-actin like other members of the thymosin beta family, it also directly regulates cell motility in prostatic carcinoma cells. Thymosin beta 15 can be detected in bodily fluids using antibodies, PCR primers and probes. A correlation between expression of human thymosin beta 15 and disease state in a number of cancers has been demonstrated. This can be used for the diagnosis and prognosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Diagnosis and prognosis of cancer - by measuring levels of thymosin beta
15 in a biological sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 6.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prostate, lung, melanoma or breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    356 ACCCTGACTGAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 18; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human thymosin beta-15 PCR primer.
                                                   Human thymosin beta-15 PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CHIL-) CHILDRENS MEDICAL CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВЪ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96US-00664857.
                                                                                                                                                                                                                                                                                                                                                                                                              97WO-US010306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV05151 standard; cDNA; 24
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-120303/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                              13-JUN-1997;
                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                  WO9748982-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUN-1996;
24-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-JUN-1998
                                                                                                                                                                                                                                                                                                                                                        24-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zetter BR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV05151
11D AAV0
11D AAV0
AC AAV
XXX
XXX
XXX
MUm
KW HUm
KW ant
KW 88;
```

ö

Gарв

ö

1 TATCAGCTAGTGGCTGCACCCGCG 24 TATCAGCTAGTGGCTGCACCCGCG 24

ð g

24-DEC-1997

ô

Gape

ö

Length 24; Indels

```
primers AAV34008-V34009 were used to PCR amplify the rat thymosin-betais gene (AAV34006). The sequence was isolated from a highly metastatic AT3.1 cell subline cDNA library. AT3.1 cells were derived from a Dunning R3327 rat prostatic adenocarcinoma issue. These primers were also used to amplify and isolate the corresponding human gene from the human prostatic carcinoma cell line PC3. The invention relates to an antibody or antibody fragment that binds human thymosin-betais, which can be used for treating of diagnosing cancers, especially metastatic cancers, where the cancer cells express human thymosin-betais, e.g. prostatic carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primers AAV34008-V34009 were used to PCR amplify the rat thymosin-betals gene (AAV34006). The sequence was isolated from a highly metastatic AT3.1 cell subline cDNA library. AT3.1 cells were derived from a Dunning R3327 rat prostatic adenocarcinoma issue. These primers were also used to amplify and isolate the corresponding human gene from the human prostatic carcinoma cell line PC3. The invention relates to a antibody or antibody fragment that binds human thymosin-betals, which can be used for treating or diagnosing cancers, especially metastatic cancers, where the cancer cells express human thymosin-betals, e.g. prostatic carcinoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rat; thymosin-beta15; prostate; adenocarcinoma; differential display; primer; human; antibody; diagnosis; cancer; metastasis; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antibody to human thymosin betals - useful for cancer therapy or
Antibody to human thymosin betal5 - useful for cancer therapy
                                                                                                                                                                                                                                                                                                                              Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                       5.8%; Score 24; DB 2; Li
100.0%; Pred. No. 6.6e+03;
ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rat thymosin-beta15 gene PCR forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CHIL-) CHILDREN'S MEDICAL CENT BOSTON.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24 ACCCTGACTGAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example; Col 12; 22pp; English
                                                              Example; Col 12; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-00931877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00801796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV34008 standard; cDNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JAN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 100. Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-609320/51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zetter BR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primer; human; an amplification; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US5831033-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-NOV-1998
                       diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV34008;
                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bao L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 6
AAV34008
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thymosin beta 15 primers AAV05151 and AAV05152 are used for the amplification of thymosin beta 15 gene. Human thymosin beta 15 has the ability to bind and sequester G-actin like other members of the thymosin beta family, it also directly regulates cell motility in prostatic carcinoma cells. Thymosin beta 15 can be detected in bodily fluids using antibodies, PCR primers and probes. A correlation between expression of human thymosin beta 15 and disease state in a number of cancers has been demonstrated. This can be used for the diagnosis and prognosis of
                                                                                                                                                                                                                                                                                                                                                       Diagnosis and prognosis of cancer - by measuring levels of thymosin beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mosin-beta15; prostate; adenocarcinoma; differential display;
human; antibody; diagnosis; cancer; metastasis; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ch 5.8%; Score 24; DB 2; Length 24; 1 Similarity 100.0%; Pred. No. 6.6e+03; 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rat thymosin-beta15 gene PCR reverse primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prostate, lung, melanoma or breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CHIL-) CHILDREN'S MEDICAL CENT BOSTON.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 18; 41pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV34009/c
ID AAV34009 standard; cDNA; 24 BP.
                                                                                                                                                                                                                      (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                        96US-00664857.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-00931877.
                                                                                                                                 97WO-US010306
                                                                                                                                                                                                                                                                                                                                                                              in a biological sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rat; thymosin-betal5;
                                                                                                                                                                                                                                                                                                           WPI; 1998-120303/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-609320/51
                                                                                                                                                                                                                                                               Zetter BR, Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zetter BR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amplification;
  Homo sapiens
                                                                                                                              13-JUN-1997;
                                                                                                                                                                          17-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-PEB-1997;
                                         WO9748982-A1
```

Query Match Best Local S

Matches

US5831033-A 03-NOV-1998

Bao L,

Rattue sp. Synthetic

AAV34009;

RESULT 5

셤

Matches

ઠ

RESULT 7

```
The present sequence represents a PCR primer for human thymosin beta 15, used in the present invention describing human thymosin beta 15. The present invention also describes antibodies and antibody fragments specific for thymosin beta 15, vectors containing the nucleic acids, and a method for treating a neoplastic cell expressing human thymosin beta 15 by administering a compound that inhibits the activity or production of thymosin beta 15, preferably an antisense oligonucleotide, ribozyme, antibody or antibody fragment. Thymosin beta 15 binds and sequesters Gactin and directly regulates cell motility in prostatic carcinoma cells
                                                                                                                                                                                                                                                                                                                                                                                             Human thymosin beta-15 - regulating prostatic carcinoma cell motility.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thymosin beta15; human; expression inhibitor; antibody; diagnosis; cancer; prostate cancer; therapy; PCR primer; 88.
                                 Human, thymosin beta 15, G-actin; cell motility; regulation,
prostatic carcinoma, PCR primer; 89.
Human thymosin beta 15 PCR reverse primer SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer for human thymosin beta15 coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.8%; Score 24;
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        356 ACCCTGACTGAAAGGTCAGCATTT 379
24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure, Col 12; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP.
                                                                                                                                                                                                                                                                                        (CHIL-) CHILDRENS MEDICAL CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00801796.
97US-00931877.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-00069484.
                                                                                                                                                                                                                 97US-00801796
                                                                                                                                                                                                                                                  96US-00664856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ86879 standard; cDNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-168472/15
                                                                                                                                                                                                                                                                                                                           Zetter BR;
                                                                                                                                                                                                                                                    17-JUN-1996;
                                                                                     Synthetic.
Homo sapiens
                                                                                                                                                                                                                 14-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-FEB-1997;
17-SEP-1997;
                                                                                                                                          US5721337-A.
                                                                                                                                                                             24-FEB-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6017717-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ86879;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                           вао г,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ86879
 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence represents a PCR primer for human thymosin beta 15, used in the present invention describing human thymosin beta 15. The present invention also describes; antibodies and antibody fragments specific for thymosin beta 15; vectors containing the nucleic acids; and a method for treating a neoplastic cell expressing human thymosin beta 15 by administering a compound that inhibits the activity or production of thymosin beta 15, preferably an antisense oligonucleotide, ribozyme, antibody fragment. Thymosin beta 15 binds and sequesters Gactin and directly regulates cell motility in prostatic carcinoma cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human thymosin beta-15 - regulating prostatic carcinoma cell motility.
                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ó
                                                    ö
                                                                                                                                                                                                                                                                                                                                                         Human, thymosin beta 15, G-actin, cell motility, regulation,
prostatic carcinoma, PCR primer, 88.
             5.8%; Score 24; DB 2; Length 24;
100.0%; Pred. No. 6.6e+03;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 24; DB 2; Length 24; Pred. No. 6.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                           Human thymosin beta 15 PCR forward primer SEQ ID NO:8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 5.8%; Score 24; DB Similarity 100.0%; Pred. No. 6.6 24; Conservative 0; Mismatches
                                                                                                        1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                       1 TATCAGCTAGTGGCTGCACCGGG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 TATCAGCTAGTGGCTGCACCCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Col 12; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV15085/c
ID AAV15085 standard; DNA; 24 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96US-00664856.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97US-00801796.
                                                                                                                                                                                                               AAV15084 standard; DNA; 24
                                                                                                                                                                                                                                                                                        (first entry)
                                                    24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1998-168472/15.
                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zetter BR;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Ното варіеля
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-JUN-1996;
                                                                                                                                                                                                                                                                                        20-MAY-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US5721337-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-FEB-1998
                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                  AAV15084;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV15085;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local (
                Query Match
                                 Best Local
```

Bao L,

ö

Gaps

ö

(CHIL-) CHILDRENS MEDICAL CENT.

(first entry)

20-MAY-1998

RESULT 8

Matches

δ 셤

Length 24; 0, Indels ហ

g

ઠે

```
356 ACCCTGACTGAAAGGTCAGCATTT 379
                   24 ACCCTGACTGAAAGGTCAGCATTT
                                                                                                                  AAD23794 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD23793 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-MAR-2002 (first entry)
                                                                                                                                                                                      07-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.0
warches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-033180/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zetter BR, Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-FEB-1997;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                             06-AUG-1999;
                                                                                                                                                                                                                                                                                                                                          US6300479-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-APR-1998;
                                                                                                                                                                                                                                                                                                          Rattus sp.
                                                                                                                                                    AAD23794;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD23793;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
                                                                                   RESULT 11
                                                                                                    AAD23794,
                               셤
                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                This sequence represents a PCR primer for DNA encoding the human thymosin betal5 protein. The invention relates to a method for inhibiting thymosin betal5 expression in a cell comprising administering an antibody or antibody fragment. The method is useful for treating and diagnosing cancer, particularly prostate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence represents a PCR primer for DNA encoding the human thymosin becals protein. The invention relates to a method for inhibiting thymosin betal5 expression in a cell comprishing administering an antibody or antibody fragment. The method is useful for treating and diagnosing
                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Thymosin beta15; human; expression inhibitor; antibody; diagnosis; cancer; prostate cancer; therapy; PCR primer; ss.
                                                                 Inhibiting thymosin beta 15 expression, useful for diagnosing and treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nhibiting thymosin beta 15 expression, useful for diagnosing and
                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                     ch 5.8%; Score 24; DB 3; Length 24; I Similarity 100.0%; Pred. No. 6.6e+03; 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 6.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer for human thymosin beta15 coding sequence.
                                                                                                                                                                                                                                                       Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                            1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                          24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer, particularly prostate cancer
                                                                                                                                                                                                                                                                                                                                                                               1 TATCAGCTAGTGGCTGCACCCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; Col 12; 22pp; English.
                                                                                                                  Example, Col 12; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  880/c
AAZ86880 standard; cDNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-00801796.
97US-00931877.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-00069484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                              WPI; 2000-136675/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-136675/12
Zetter BR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zetter BR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 treating cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-FEB-1997;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6017717-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JAN-2000
                                                                                                                                                                                                                                                                                         Query Match
Best Local S
 Bao L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bao L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ86880/
```

ö

Gaps

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to nucleic acids encoding human thymosin betal5 protein, that has the ability to bind and sequester G-actin and directly regulates cell motility in prostatic carcinoma cells. The antibodies of thymosin betal5 protein may be used to diagnose, treat or prevent cancer particularly prostate cancer. The present sequence is a reverse transcription (RT)-PCR primer used to amplify rat prostatic adenocarcinoma cell cDNA. This sequence is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rat prostatic adenocarcinoma cell cDNA amplifying Tbeta15 forward primer.
                                                                                                                                                                                          Rat prostatic adenocarcinoma cell cDNA amplifying Tbeta15 reverse primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              An antibody which selectively binds to a thymosin beta15 protein is useful to detect, prevent or treat cancer, particularly of the prostate.
                                                                                                                                                                                                                                                 Rat; thymosin beta15 protein; G-actin; cell motility; therapy; prostate cancer; cytostatic; reverse transcription; RT; PCR primer; se.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rat; thymosin betal5 protein; G-actin; cell motility; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5.8%; Score 24; DB 6; Length 24; 100.0%; Pred. No. 6.6e+03; Ltive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example; Col 12; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00801796.
97US-00931877.
98US-00069484.
ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-00369744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EXEXEXEX
```

9

```
356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                        Example; SEQ ID NO 9; 23pp; English.
                                                                        (CHIL-) CHILDRENS MEDICAL CENT.
             97US-00931877.
98US-00069484.
99US-00369744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-JUN-2001; 2001US-00874736.
97US-00801796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADF61759 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (revised)
                                                                                                                                  WPI; 2004-040942/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2002183496-A1
 14-FEB-1997;
               17-SEP-1997;
                                            06-AUG-1999;
                             39-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-DEC-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-FEB-2004
29-JAN-2004
                                                                                                       Zetter BR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADF61759;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADF61759
 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to nucleic acids encoding human thymosin beta15 protein, that has the ability to bind and sequester G-actin and directly regulates cell motility in prostatic carcinoma cells. The antibodies of thymosin beta15 protein may be used to diagnose, treat or prevent cancer particularly prostate cancer. The present sequence is a reverse transcription (RT)-PCR primer used to amplify rat prostatic adenocarcinoma cell cDNA. This sequence is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cell motility regulation; neoplastic cell; prostatic carcinoma; prostate cancer; metastatic cancer; prostate cancer; metastatic cancer; dagnosis, prognosis; antiense therapy; gene therapy; cytostatic; thymosin beta-15 antagonist; adenocarcinoma RNA; reverse transcription-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                            An antibody which selectively binds to a thymosin beta15 protein is useful to detect, prevent or treat cancer, particularly of the prostate.
prostate cancer; cytostatic; reverse transcription; RT; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.8%; Score 24; DB 6; Length 24;
100.0%; Pred. No. 6.6e+03;
Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; rat; thymosin beta-15; G-actin seguestration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rat thymosin beta-15 RT-PCR primer, SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 rarcaccracrecrecrececes 24
                                                                                                                                                                                                                                                                                                                                                       Example; Col 12; 22pp; English.
                                                                                                                                             96US-00664856.
97US-00801796.
97US-00931877.
98US-00069484.
                                                                                                                                                                                                                       (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
                                                                                                                   99US-00369744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JUN-2001; 2001US-00874736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96US-00664856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADF61760 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                  WPI; 2002-033180/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                      Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JS2002183496-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-JUN-1996;
                                                                                                                   36-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-FEB-2004
29-JAN-2004
                                                         JS6300479-B1
                                                                                                                                               17-JUN-1996
                                                                                                                                                                                           29-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-DEC-2002
                                                                                                                                                             14-FEB-1997
17-SEP-1997
                                                                                      39-OCT-2001
                                                                                                                                                                                                                                                      Zetter BR,
                           Rattus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF61760;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Loc
Matches
```

RESULT 13 ADF61760/

CHARLE A CONTRACTOR AND A CONTRACTOR AND

셤

```
The invention relates to human thymosin beta-15 (ADF61753) and cDNA encoding it (ADF61752). The invention also relates to recombinant vectors and host cells comprising human thymosin beta-15 nucleic acids, antibodies which specifically bind human thymosin beta-15.

Cantibodies which specifically bind human thymosin beta-15.

Caligonucleotides at least 10 nuclectides in length which hybridise to human thymosin beta-15. Like other members of the thymosin beta-15 has the ability to bind and sequester G-actin, contunities other beta thymosins, it also directly regulates cell motility in prostatic carcinoma cells. Additionally, enhanced expression of thymosin beta-15 in non-testicular cells has a high correlation to disease state in a number of cancers, such as prostate, lung, melanoma and breast cancer, particularly metastatic cancers. Human thymosin beta-15 may be treated by suppressing the activity or expression of thymosin beta-15 for example by administering thymosin beta-15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
New isolated polynucleotide encoding human thymosin beta15 for diagnosing and prognosing particular cancers, especially metastatic cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, rat, thymosin beta-15; G-actin sequestration; cell motility regulation; neoplastic cell; prostatic carcinoma; prostate cancer; lung cancer; melanoma; breast cancer; metastatic cancer; diagnosis; prognosis; antisense therapy; gene therapy; cytostatic; thymosin beta-15 antagonist; adenocarcinoma RNA; reverse transcription-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 6 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5.8%; Score 24; DB 12; I 100.0%; Pred. No. 6.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rat thymosin beta-15 RT-PCR primer, SEQ ID NO:8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present sequence is related to the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
```

```
The invention relates to human thymosin beta-15 (ADF61753) and cDNA encoding it (ADF61752). The invention also relates to recombinant vectors and host cells comprising human thymosin beta-15 nucleic acids, antibodies which specifically bind human thymosin beta-15.

Coligonucleotides at least 10 nucleotides in length which hybridise to human thymosin beta-15 cDNA, and methods of treating neoplastic cells expressing thymosin beta-15. Like other members of the thymosin beta-15 has the ability to bind and sequester G-actin, but unlike other beta thymosins, it also directly regulates cell motility in prostatic carcinoma cells. Additionally, enhanced expression of thymosin beta-15 in non-testicular cells has a high correlation to disease state in a number of cancers, such as prostate, lung, melanoma and breast cancer, particularly metastatic cancers. Human thymosin beta-15 in content of cancers, such as prognosis of various cancers, especially metastatic cancers which expression to thymosin beta-15 may be treated by suppressing the activity or expression of thymosin beta-15. for example by administering thymosin beta-15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                           New isolated polynucleotide encoding human thymosin beta15 for diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense oligonucleotides or thymosin beta-15-specific antibodies. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; thymosin beta-15; RT-PCR; ss; cancer; prostate; lung; melanoma;
breast; cytostatic; primer; reverse transcriptase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                               and prognosing particular cancers, especially metastatic cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5.8%; Score 24; DB 12; Length 24; 100.0%; Pred. No. 6.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present sequence is related to the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human thymosin beta-15 cDNA RT-PCR primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Pred. w.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                Example; SEQ ID NO 8; 23pp; English.
                                                                                                        (CHIL-) CHILDRENS MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00801796.
97US-00931877.
98US-00069484.
96US-00664856.
97US-00801796.
97US-00931877.
98US-00069484.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADP44092 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00664B56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-DEC-2003; 2003US-00726422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-AUG-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24; Conservative
                                                                                                                                                                           WPI; 2004-040942/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
Matches 24; Conserve
                                                                                                                                         Zetter BR, Bao L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US2004101910-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-FEB-1997;
17-SEP-1997;
29-APR-1998;
                                                                      06-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUN-1996;
                                                      29-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAY-2004.
                                    17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADP44092;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADP44092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
```

Search completed: March 12, 2006, 07:36:09 Job time : 486 secs

```
The invention relates to the human thymosin beta-15 polypeptide and the polymucleotide encoding it. The invention also relates to an antibody that selectively binds human thymosin beta-15 and a method of treating a neoplastic cell expressing human thymosin beta-15 by administering to the cell a compound which suppresses the activity or production of human thymosin beta-15. The antibody is useful for treating a neoplastic cell expressing human thymosin beselves an enclosed a neoplastic cell expressing human thymosin beta-15. The polypeptide and antibody are useful for treating, diagnosing or preventing cancers such as prostate cancer, uncer, melanoma and breast cancer, particularly metastatic cancers, where enhanced transcripts (mRNA) and expression of the thymosin beta-15 gene in non-testicular cells have a high correlation to disease state in the cancers. It is useful for treating or preventing cancers. This sequence represents a reverse transcriptesse PCR (RT-PCR) primer used to amplify CDNA encoding the human thymosin beta-15 polypeptide of the
                                                                                                                                                                                                          Novel isolated and purified human thymosin betais, useful for diagnosing cancers such as prostate, lung, melanoma and breast cancer, particularly metastatic cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.8%; Score 24; DB 12; Length 24; 100.0%; Pred. No. 6.6e+03; ative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 4 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                          Example; SEQ ID NO 8; 23pp; English
                                                                (CHIL-) CHILDRENS MEDICAL CENT
                      05-JUN-2001; 2001US-00874736
99US-00369744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 100.
Matches 24; Conservative
                                                                                                                                                              WPI; 2004-459889/43.
                                                                                                                    Bao L;
06-AUG-1999;
                                                                                                                 Zetter BR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
ਨੇ
```

THIS PAGE BLANK (USPTO)

8 4.1 31 1 AU254837 8 4.1 34 9 BH901287 8 4.1 36 6 CF301054 8 4.1 36 10 CG7255443	.8 4.1 38 10 CZ47533 .8 4.1 40 9 BH846939 .6 4.0 30 9 AZ312621 .6 4.0 37 1 AA947987	16.6 4.0 37 10 C2466979 C2466979 C1204 3P 16.6 4.0 39 1 AW246452 AW246452 2821649.3 16.6 4.0 40 1 A1022013 A1022013 OW64C01.x 16.4 4.0 34 1 A1958680 A1958680 £C95b01.y 16.4 4.0 37 1 AL587823 AL587823 AL587823 AL587823 16.4 4.0 39 9 BZ762643 AL587823	2 3.9 32 9 AZ313810 2 3.9 32 10 AL755578 2 3.9 34 9 AZ979561 2 3.9 34 11 TA28E04Q 2 3.9 35 9 AZ980857	ALIGNMENTS	CR399055 Arabidopsis thaliana T-DNA flanking sequence GK-814F03-025642, genomic survey sequence. CR399055 CR399055.1 GI:46939783 GSS. Arabidopsis thaliana (thale cress) Arabidopsis thaliana (thale survey survey survey statements survey and survey survey viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; coreids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.	11, Y., Rosso, M.G., Strizhov, N., Vie GABI-Kat SimpleSearch: a flanking s the identification of T-DNA inserti thaliana Bioinformatics 19 (11), 1441-1442 (12874060 Rosso, M.G., Li, Y., Strizhov, N., Rei Rosso, M.G., Li, Y., Strizhov, N., Rei		
ი 25.44.3 26.44.3	0 0 331	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		RESULT 1 CR399055/C LOCUS DEFINITION ACCESSION VERYORS SOURCE ORGANISM	REFERENCE AUTHORS TITLE JOURNAL PUBMED REFERENCE AUTHORS	TITLE JOURNAL PUBNED REFERENCE AUTHORS TITLE	PUBMED REFERENCE AUTHORS TITLE JOURNAL COMMENT
5.1.7 Biocceleration Ltd.	Search time 3628 Seconds (without alignments) 5313.197 Million cell updates/sec	AAATGTGTTTTCCACTGCTC 412	lues :8: 105260			cted by chance to have a of the result being printed, score distribution	CR399055 Arabidops BH312364 SALK 0616 AW247125 2819775.3 AZ311457 1M0226121 CZ314406 4013006G1 AZ450518 1M0249J13 AL952209 Arabidops CZ467113 C01377-5p A1185980 qe34C06.8 AA912393 0199C01.8	AI181597 uc63d11.r C2490399 f07663-3p AJ593144 Arabidops D19985 HUMGS00952 AB088497 AB088497 AA624893 vn83h01.r D21040 HUMGS02024 BW593340 BW593340 BZ288540 SALK 0219 BJ066456 BJ066456 AJ600605 Arabidops CO777934 BL0028 H1
GenCore version 5.1. Copyright (c) 1993 - 2006 Bioo	OM nucleic - nucleic search, using sw model Run on: March 12, 2006, 05:37:06 ; Search (with	Title: Perfect score: 412 Sequence: 1 TATCAGCTAGTGGCTGCACC	d: 41078325 seqs umber of hits satisfyi DB seq length: 10	Being: Minimu Maximu	## ## ## ## ## ## ## ## ## ## ## ## ##	Pred. No. is the number of results predicted by score greater than or equal to the score of the and is derived by analysis of the total score discored is query and the color of the color	19.4 4.7 38 11 18.8 4.6 39 1 18.6 4.5 39 1 18.6 4.5 39 1 19.8 4.4 35 10 18.8 4.4 37 10 18.8 4.4 37 10 18.8 4.4 39 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 17.8 4.3 10 1	

Gape

ô

Length 36;

```
Mammalia, Eutheria; Edarchontoglires; Frimates; Catarrini; Hominidae; Homo.

1 (bases 1 to 39)

18 Mit-MGC thtp://mgc.nci.nih.gov/.

19 Unpublished (1999)

10 Unpublished (1999)

11 Unpublished (1999)

12 Unpublished (1999)

13 Unpublished (1999)

14 Unpublished (1999)

15 Unpublished (1999)

16 Unpublished (1999)

17 Unpublished (1999)

18 U
                                                                                                                                                                                                                                                                                                                                                                                            AW247125
2819775.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819775 3',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Buarchontoglires, Primates, Catarrhini,
                                                                                                10; Indels
                                                                                                                                                                  242 ATTCTCCTCTCAAGAGCAACTTCAACTTTGCTGGA 276
                               Score 19; DB 9; Pred. No. 2.5e+06;
                                                                                                                                                                                                                                35 ATTCTGCTATTCAAACAACTTAAGCGTTGATGGA 1
                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .39
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polyadenylated.
Plate: LLCM2 row: H column: 16
High quality sequence stop: 13.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AW247125.1 GI:6590118
                           4.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 68.4%;
Matches 26; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
                           Query Match
Best Local Similarity 71.41
Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mRNA sequence.
AW247125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                 RESULT 3
AW247125/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                           /ecotype="Col-0"
/note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC106 (GenBank accession number: AJ537513). The lines contain one or more T-DNA insertions. The DNA fragment(6) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GSS 02-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db xrgf="txxon:3702"
/clone="SALK 061675"
/clone="Ib="Arabidopsis thaliana TDNA insertion lines"
/clone lib="Arabidopsis thaliana thaliana lines
/note="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
be found at http://signal.salk.edu/tdna_protocols.html"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (Dases 1 to 36)
1 (Dases 1 to 36)
2 (Gadrinab, C., Jeske, A., Garcias, P., Chen, H., Cheuk, R., Gadrinab, C., Jeske, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Sahina, P., Zimmerman, J. and Ecker, J.R.
A Sequence-Indexed Library of Insertion Mutations in the Arabidopsis Genome
Unpublished (2001)
Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute for Biological Studies
The Salk Institute for Biological Studies
The Salk Salk 100 N.752
Tels: 858 453 4100 x1752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicotyledons;
roada; eurosida II; Brassicales; Brassicaceae; Arabidopsis.
(bases 1 to 36)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SALK 061675 Arabidopsis thaliana TDNA insertion lines Arabidopsis thallana genomic clone SALK_061675, genomic survey sequence.
                                                                                                                            /organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
|db_xref="taxon:3702"
|clone="cR-814F03-025642"
|clone=lib="Arabidopsis thaliana T-DNA insertion lines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This is single pass sequence recovered from the left border of TDNA. This sequence lies within an annotated exon of At4g25330. Class: TDNA tagged.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
availability can be found at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4.7%; Score 19.4; DB 11; Length 38; 70.3%; Pred. No. 2e+06; tive 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    101 AGTGATAAACCAGACTTATCAGAAGTTGAAACATTTG 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 38 AGCGAAAGTCCAGAAGTATCAGAAATGAAATTATTTG 2

    .36
    Organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/ecotype="Col.0"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                           http://www.mpiz-koeln.mpg.de/GABI-Kat/
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            36 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
GABI'. Information on line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BH812364.1 GI:20390819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: ecker@salk.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 70.3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BH812364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BH812364
                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 2
BH812364/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
```

```
/clone="IMAGE:SIP3775"

/tissue_type="small cell carcinoma"

/tissue_type="small cell carcinoma"

/clone_lib="McG3"

/lab_fost="McG3"

/clone_lib="NHH MGC_7"

/cloned_into_ECENT/Ahol sites using the following 5'

adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in

the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-CDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4.6%; Score 18.8; DB 1; Length 39;
58.4%; Pred. No. 2.9e+06;
ve 0; Mismatches 12; Indels
```

ന

RESULT 4 AZ311457/c LOCUS

DEFINITION

ACCESSION VERSION KEYWORDS SOURCE ORGANISM

REFERENCE AUTHORS JOURNAL

TITLE

```
/mol type="genomic DNA"

/mol type="genomic DNA"

/db_xref="taxon:4577"

/tisue type="leaf"

/tisue type="leaf"

/dev stage="adult"

/lab_nost="button"

/lab_nost="button"

/lab_nost="button"

/loofe="Organ: leaf; Vector: RescueMu (engineered from pBlueScript backbone); Site il BamHi; Site 2: BglII;

RescueMu is a 4.9 kb, modified maize Mu transposon designed to allow plasmid rescue from total genomic DNA.

Mu elements insert preferentially into transcription units. For more information on RescueMu, go to the web site 'http://www.nutransposon.org/project/RescueMu/'. Grid O was grown at Stanford in 2001. DNA was extracted from leaf strips, double digested using BamHi and BglII, and ligated to form circular plasmids. DH10B cells were transformed and then screened on LB plates with
                                                                                                                                                                                                                                            CZ914406 39 bp DNA linear GSS 08-AUG-2005
4013006G11.1EL_y1 4013 - RescueMu Grid O Zea mays genomic, genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZ450518 35 bp DNA linear GSS 04-OCT-2000 IM0249J13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0249J13 F, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Maize genomic sequences found using engineered RescueMu transposon
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Bukaryota, Viridiplantae, Streptophyta, Bagnoliophyta, Magnoliophyta, Magnoliophyta, Poales, Poales, Poaceae, PACCAD Clade, Panicoideae, Andropogoneae, Zea.
(bases 1 to 39)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           855 California Ave, Palo Alto, CA 94304, USA
Peri 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu
Very probable ligation site of ends cut by single endonuclease.
Reverse complemented post-ligation sequence from source sequence.
Plate: 4013006 row: G column: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1. 4.5%; Score 18.6; DB 10; Length 39; Similarity 72.7%; Pred. No. 3.3e+06; 4; Conservative 0; Mismatches 9; Indels (4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       210 AGAAAGATATAATCAAAGATCATAAAATGAGA 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 AAAAAAATATAAAAATAATAATAATAATAATAGA 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Department of Biological Sciences Stanford University
                                  150 TGAAGAAGACTAATACTGAAGAAA 174
                                                                                     30 raagargarraarrcrgaagaaa 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .39
/organism="Zea mays"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Class: transposon-tagged.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                    CZ914406.1 GI:71930997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ampicillin."
                                                                                                                                                                                                                                                                                                  survey sequence.
CZ914406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Walbot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Walbot, V.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Simi
Matches 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                   RESULT S
CZ914406
                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZ450518
                                                                                                                                                                                                                                                                                                                                                                       VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwalp42 (gql/4732114[gb]AR129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                   SM Will musculus (NOCO) (Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muscidae; Murinae; Mus. Sciurognathi; Muscidae; Murinae; Mus. 1 (bases 1 to 33) (a Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Menen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R. Mouse whole genome scaffolding with paired end reads from 10kb plasmid innerts University of Utah Genome Center (Contact: Robert B. Weiss University of Utah
                                                                                                                                                                                                                GSS 29-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 12, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                         AZ311457 33 bp DNA linear GSS 29-SEP-200
1M0026121R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0026121 R, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWD42rv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ch 4.5%; Score 18.6; DB 9; Length 33; 1 Similarity 84.0%; Pred. No. 3.2e+06; 21; Conservative 0; Mismatches 4; Indels
140 AAATCAAAGTTGAAGAAGACTAATACTGAAGAAAAGAA 177
                            Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0026 row: I column: 21
Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. .33
/organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  High quality sequence stop: 33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:10090"
/clone="UUGC1M0026121"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                    AZ311457.1 GI:10354438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: 801 585 5606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 21; Conserval
```

source

FEATURES

ö

Gaps ..

for

ORGANISM

REFERENCE AUTHORS

VERSION KEYWORDS SOURCE

JOURNAL

TITLE

FEATURES

```
Submitted (31-MAR-2004) Weisshaar B., Max-Planck-Institut fuer Submitted (31-MAR-2004) Weisshaar B., Max-Planck-Institut fuer Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence has been recovered from the left border of the T-DNA. It indicates an insertion close to or within gene Af5906610.
Details on the protocols used for generation of the sequence are described in References 1-3. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated http://www.mpiz-koeln.mpg.de/GABI-Kat/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /ecotype="Col-0"

/note="PCR was performed on DNA from Arabidopsis thaliana plants PCR was performed on DNA from the T-DNA inch were transformed with the T-DNA from vector pAC161 (GenBank accession number: AJ537514). The lines contrain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequence fragment(s) resulting from the PCR were directly sequence to determine the genomic sequence flanking the insertion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics Plant Mol. Biol. 53 (1-2), 247-259 (2003)
                                                                                      Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Bukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mol_type="genomic DNA"
/db_xref="taxon:3702"
/clone="GK-341F12-016153"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CZ467113 19 bp DNA linear GSS 29-APR-2 c01377-5prime Exelixis piggyBac PB insertions Drosophila melanogaster genomic Sequence recovered from 5' end of piggyBac,
                                                                                                                                                                                                                                                                              Li,Y., Rosso,M.G., Strizhov,N., Viehoever,P. and Weisshaar,B. GABI-Kat SimpleSearch: a flanking sequence tag (FST) database the identification of T-DNA insertion mutants in Arabidopsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Strizhov, N., Li, Y., Rosso, M.G., Viehoever, P., Dekker, K.A. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             High-throughput generation of sequence indexes from T-DNA mutagenized Arabidopsis thaliana lines BioTechniques 35 (6), 1164-1168 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosso, M.G., Li, Y., Strizhov, N., Reiss, B., Dekker, K. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Li,Y., Strizhov,N., Rosso,M.G. and Weisshaar,B. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I-DNA derived sequences were removed."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Arabidopsis thaliana"
/mol type="qenomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.4%; Score 18; DB 10;
80.8%; Pred. No. 4.8e+06;
cive 0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                           Bioinformatics 19 (11), 1441-1442 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         283 TGGATTTAGACATGTTTCTGTAAACC 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ricarraacacararrirricriaacc 27
      AL952209.1 GI:24408831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (bases 1 to 37)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 80.8
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                    thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                        12874060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14682050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14756321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CZ467113
LOCUS
DEFINITION
                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (http://www.nduse_DNa.resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwalot (gil #4732114[gb]AR129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AL952209 37 bp DNA linear GSS 02-APR-2004 Arabidopsis thaliana T-DNA flanking sequence GK-341F12-016153, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Solurognath; Muroidea; Murinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; 1 to 35)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Reilly, M., Rose, M., Rose, M., Menen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /sex="Male"
/lab_host="B. Coli strain XL10-Gold, T1-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/60 (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.4%; Score 18.2; DB 9; Length 35; 74.2%; Pred. No. 4.2e+06; Live 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddunnegenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0249 row: J column: 13
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94 CAAGATGAGTGATAAACCAGACTTATCAGAA 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   caagtraagrearaarcargecraargagaa 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0249J13"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 35.
Location/Qualifiers
                                                                Mus musculus (house mouse)
      GI:10605384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similario,
nes 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           plasmid inserts
                                                                                             Mus musculus
AZ450518.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
```

ö

Gaps

ö

Query Match

ORIGIN

Best Loca Matches

LOCUS

AL952209

RESULT 7

GSS 29-APR-2005

S

SOURCE ORGANISM ACCESSION VERSION KEYWORDS

REFERENCE

PUBMED

COMMENT

JOURNAL

TITLE

```
AA912393 31 bp mRNA linear EST 10-JUN-1998 ol99c01.81 NCI CGAP_PNS1 Homo Bapiens CDNA clone IMAGE:1537728 3' similar to SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A ;, mRNA
  IMAGE:1740874 3' similar to TR:Q33574 Q33574 ORF2 BASES 1807-2850.
                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Euarchontoglires, Primates, Catarrhini,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

1 (bases 1 to 31)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                               Hominidae, Homo.

1 (bases 1 to 40)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                              Contact: Robert Strausberg, Ph.D.

Email: cgapbs r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
This Chone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.

Trace considered overall poor quality
Insert Length: 1355 Std Brror: 0.00
Seq primer: -40013 fwd. Br from Amersham
High quality sequence stop: 1.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.4%; Score 18; DB 1; 1
70.6%; Pred. No. 4.8e+06;
tive 0; Mismatches 10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        190 GAAGGAAACTATCCAGCAGGAGAAAGAATATAAT 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34 GAAGTAAAATATTAACATATAGAAAGAATAGAAT 1
                                                                  AI185980.1 GI:3736618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA912393.1 GI:3051785
                                                                                                       Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (human)
                                                                                                                                                                                                                                                                                         Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 70.6
Matches 24; Conservative
             i, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         j. .40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ведиепсе.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST.
                                                                VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                           AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
                                              ACCESSION
                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA912393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                            Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Bukaryota; Endopterygota; Diptera; Brachycera; Muscomorpha;

Bydydroidea; Drosophilade; Drosophila.

E (bases 1 to 39)

E (bases 1 to 39)

E (bases 1 to 39)

E (bases 1 to 30)

E (banta, Mazota, Mazota, Moo, A., Zakrajsek, I., Zhao, L., Chen, F., Swimmer, C., Kopczynski, C., Duyk, G., Winberg, M.L. and Margolis, J.

A complementary transposon tool kit for Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (third chromosome ammunition) or the appearance of w+ male progeny (X chromosome ammunition). All lines were mapped to a chromosome by standard genetic methods, examined for homozygous viahlity, and used for recovery of flanking genomic sequence by inverse PCR."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AI185980 40 bp mRNA linear EST 29-OCT-1998
qe34c06.81 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence recovery method was inverse PCR.
Sequence orientation is forward strand relative to 5' end of piggyBac element.
The piggyBac element.
The piggyBac insertion position is 36 in the 39 bases. This insertion position refers to the first base of the 4 base TTAA target recognition sequence.
Class: transposon insertion site.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Roger A Hoskins
Berkeley Drosophila Genome Project
Lawrence Berkeley National Laboratory
Mailstop 64-121, One Cyclotron Road, Berkeley, CA 94720, USA
Tel: 510 486 4015
Fax: 510 486 6798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ch 4.4%; Score 18; DB 10; Length 39
1 Similarity 70.6%; Pred. No. 4.8e+06;
24; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         211 GAAAGAATATAATCAAAGATCATAAAATGAGATT 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 GAAAGAATAAAACGAAAGAAAAAATTACAATT 37
                                                                                                                                                                                                                                                                                                                                                                                                 using P and piggyBac
Nat. Genet. 36 (3), 283-287 (2004)
genomic survey sequence.
                    CZ467113
CZ467113.1 GI:62961126
GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: RHoskins@lbl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .39
                                                                                                                                                                                                                                                                                                                                                                                                                          Nat. Gene
14981521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
```

source

FEATURES

ö

Gaps

ö

10;

AI185980/c LOCUS DEFINITION

RESULT 9

Matches

ò

Length 40;

```
/mol_type="genomic DNA"
/strain="isogenic w- strain"
           clone="IMAGE:1430325"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Email: RHoskins@lbl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CZ490399.1 GI:62987837
                                                                                                                                                                                                                                                                                                                                                                Bonaldo."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14981521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CZ490399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AI181597 37 bp mRNA linear EST 08-OCT-1998 uc63d11.rl Soares mammary gland NbMMG Mus musculus cDNA clone IMAGE:1430325 5' Fimilar to SW:CIB_HUMAN Q99828 SNK INTERACTING PROTEIN 2-28 ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (house mouse)
Mus musculus
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.
1 (bases I to 37)
Marra,M., Hillier,L., Allan,M., Eswles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theishing,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                             /clome lib="NCICGAP PNS1"
/note="Organ: peripheral nervous system; Vector:
/note="Organ: peripheral nervous system; Vector:
perv-SPORT4; Site 1: Sal1; Site 2: Not1; Cloned
unidirectionally. Primer: Oligo dT. Average insert size
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:914393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The washU-HMMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.3%; Score 17.8; DB 1; Length 31; 75.9%; Pred. No. 5.2e+06; tive 0; Mismatches 7; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1.37
                                                                                                                                                                                                                                                                                             /tissue_type="dorsal root ganglion"
/lab host="DH108"
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbe-remail.nih.gov
unknown library type
Insert Length: 720 Std Error: 0.00
Seg primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         278 AGTCTTGGATTTAGACATGTTTCTGTAAA 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 AGCCAGGTACTTAAACTTGTTTCTGTAAA 30
                                                                                                                                                                                        1. .31
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
                                                                                                                                                                                                                             /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1537728"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AI181597.1 GI:3732235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AI181597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
AI181597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                 FEATURES
                             COMMENT
```

ORIGIN

ò

```
Drosophila melanogaster (fruit fly)

Drosophila melanogaster

Bukaryota; Metazoa; Arthopoda; Hexapoda; Insecta; Pterygota;

Bukaryota; Medazoa; Arthopoda; Hexapoda; Insecta; Pterygota;

Bobydroidea; Drosophilidae; Drosophila.

Ephydroidea; Drosophilidae; Drosophila.

Shydroidea; Drosophilidae; Drosophila.

Thibault, S. T., Singer, M.A., Miyazaki, W.Y., Milash, B., Dompe, N.A., Singh, C.M., Buchholz, R., Demsky, M., Fawcett, R., Francis-Lang, H.L., Shner, L., Cheung, L.M., Chong, A., Brickson, C., Fisher, W. W., Greer, K., Hartouni, S.R., Howie, E., Jakkula, L., Joo, D., Killpack, K., Laufer, A., Mazzotta, J., Smth, R.D., Stevens, L.M., Stuber, C., Kopczynski, C., Kopczynski, C., Kopczynski, C., Kopczynski, C., Muhberg, M.L. and Margolis, J. A complementary transposon tool kit for Drosophila melanogaster using P and piggyBac

Nat. Genet. 36 (3), 283-287 (2004)
                                                                          GSS 29-APR-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-PAPR-1
f07653-3prime Exelixis piggyBac WH insertions Drosophila
melanogaster genomic Sequence recovered from 3' end of piggyBac,
genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           piggyBac element.
The piggyBac insertion position is 1 in the 38 bases. This insertion position refers to the first base of the 4 base TTAN target recognition sequence.
Class: transposon insertion site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Roger A Hoskins
Berkeley Drosophila Genome Project
Lawrence Berkeley National Laboratory
Mailstop 64-121, One Cyclotron Road, Berkeley, CA 94720, USA
Tel: 510 486 4015
Pax: 510 486 6798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence recovery method was inverse PCR.
Sequence orientation is forward strand relative to 5' end of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 4.3%; Score 17.8; DB 1; Length 37; Best Local Similarity 67.6%; Pred. No. 5.4e+06; Matches 25; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Drosophila melanogaster"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41 GGAGTAGCTGCGGACAGAATTGCTGGCCTAGTAGAAG 77
/tissue_type="mammary gland"
/dev_stage="4 weeks"
/lab_host="DH108"
```

```
left border"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                         D19985.1 GI:500882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Osaka University
                                                                                                                                                                                                                                                                                                                                                                                                          mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AB088497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AB088497
                                                                                                                                                                                                                                                                                                                                                                                                                                 D19985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
AB088497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                           RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                    D19985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Direct Submission

Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue gaston Cramieux, 91057 Evry cedex, FRANCE
Gaston Cramieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.versailles.inra.fr/publiclines/. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infoioingen.fr).

Location/Qualifiers
/db_xref="taxon:7227"
/clone lib="Exelixis piggyBac WH insertions"
/clone lib="Exelixis piggyBac WH insertions"
/note="vector: piggyBac WH (GenBank accession number
AY515148); An isogenic w- Drosophila melanogaster strain
was mutagenized by remobilization of transposable
elements We remobilizated the WH element using the
constitutive alpha-1 tubulin:piggyBac transposase source.
We remobilized the WH element from a single ammunition
element on the Binainscy balancer chromosome in dysgenic
females. We outcrossed dysgenic virgin females in vials to
the isogenic w- strain and selected new hops in the
following generation. All lines were mapped to a
chromosome by standard genetic methods, examined for
homozygous viability, and used for recovery of flanking
genomic sequence by inverse PCR."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AJ593144 138 15-JAN-2004 Arabidopsis thaliana T-DNA flanking sequence, left border, clone 37509, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AJ593144.
AJ593144.
AJ593144.
AJ593144.
AJ593144.
Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Bukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F., Ahavin, S., Bechlerdi, N., Craud, C., DeRose, R., Pelletier, G., Lepiniec, L., Caboche, M. and Lecharny, A.
T-DNA integration into the Arabidopsis genome depends on sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  clone="375G09"
'clone_lib="Arabidopsis thaliana T-DNA insertion lines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
0
                                                                                                                                                                                                                                                                                                                                                                                                                               tch 4.3%; Score 17.6; DB 10; Length 38; al Similarity 71.9%; Pred. No. 6.1e+06; 23; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
|db_xref="taxon:3702"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note="T-DNA flanking sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 317 ATGTAGACATTTTAGGCGGTTCCTGATAGGTT 348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 Aratricatriticaectrecedaricear 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ecotype="Wassilewskija"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (bases 1 to 38)
                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 23; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Balzergue, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12446565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
AJS93144/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
```

```
Hominidae; Homo.

1 (bases I to 36)

Okubo, K., Fukushima, A., Yoshii, J., Nilyama, T., Kojima, Y.,
Yoshinari, H., Arimoto, J. and Mateubara, K.
Gene expression of human promyelocytic cell line HL60 before and
after induction of differentiation. A new application of 3'directed
contact: Okubo, K., Fukushima, A., Yoshii, J., Nilyama, T., Kojima, Y.,
Yoshinari, H., Arimoto, J. and Mateubara, K.
Institute for Molecular and Cellular Biology
                                                                                                                                                                                                                                                                                                                                D19985
HUMGS00952 Human promyelocyte Homo sapiens cDNA clone mm3314 3',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear EST 10-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oryza sativa (japonica cultivar-group)
Oryza sativa (japonica cultivar-group)
Sukaryota, Viridiplantae, Exeptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
1 (bases I to 39)
Mano, H., Noguchi, M., Oshima, T., Yoneyama, T., Hayashi, H. and
Pujiwara, T.
                                                              Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleo
Mammalia, Eutheria, Euarchontoglires, Primates, Catarhini,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone_lib="Human promyelocyte"
//clone_Thote="Formule", adult, cell_line = HL60, cell_type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AB088497 lambda TriplEx2 rice phloem sap cDNA Oryza sativa (japonica cultivar-group) cDNA clone PA426, mRNA sequence.
                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ô
      Length 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.2%; Score 17.4; DB 8; Length 36; 77.8%; Pred. No. 6.9e+06;
                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6; Indels
Query Match
4.3%; Score 17.6; DB 10;
Best Local Similarity 71.9%; Pred. No. 6.1e+06;
Matches 23; Conservative 0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mRNA
                                                                                                                   212 AAAGAATATAATCAAAGATCATAAAATGAGAT 243
                                                                                                                                                                           32 AAATAAAGAAATAAAGATCATAAATTTTGAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3-1 Yamada-oka, Šuita, Ogaka 565, Japan.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/mol_type="mRNA"
/do_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121 AGAAGTTGAAACATTTGACAAATCAAA 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10 agaaaaaaaaarrrraaaaarcaaa 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                39 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AB088497.1 GI:28298596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         promyelocyte.
```

පු

Search completed: March 12, 2006, 06:44:17 Job time : 3632 secs

Sequence 560900, Sequence 58114, Sequence 589183, Sequence 97871, A Sequence 97871, A Sequence 97871, A Sequence 9714, A Sequence 391064, Sequence 811769, Sequence 811769, Sequence 314, App Sequence 374, App Sequence 249261, Sequence 249261, Sequence 262889, Sequence 262889, Sequence 71, App Sequence 262889, Sequence 262889, Sequence 26389, Sequence 11, App Sequence 26389, Sequence 26389, Sequence 288, App

```
US-10-719-956-151661

US-10-719-956-151661, Application US/10719956

Sequence 151661, Application US/10719956

Publication No. US20040146910A1

GENERAL INFORMATION:

TITLE OF INVENTION:

TITLE OF INVENTION:

CURRENT FILING DATE: 2003-11-20

FRIOR APPLICATION NUMBER: US/10/719,956

CURRENT FILING DATE: 2003-11-20

NUMBER OF SEQ ID NOS: 699466

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 151661

LENGTH: 25

TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 99595, Application US/10719956
; Sequence 99595, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Met Zhou
; TITLE OF INFORTION: Methods of Genetic Analysis of Rat
; TITLE OF INFORTION: Wethods of Genetic Analysis of Rat
; TITLE OF INFORTION: WHORER: US/10/719,956
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
6.1%; Score 25; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.2e+03;
Matches 25; Conservative 0; Mismatches 0; Indels
VS-10-719-956-560900

VS-10-719-956-562114

VS-10-719-956-562114

VS-10-719-900-767247

VS-10-719-900-767247

VS-10-719-900-767246

VS-11-036-317-97871

VS-10-719-900-851769

VS-11-036-317-95164

VS-10-719-900-851770

VS-11-036-317-351725

VS-10-719-900-87179

VS-10-719-900-87179

VS-10-719-900-87179

VS-10-719-900-73286

VS-11-036-317-39286

VS-11-036-317-39286

VS-11-036-317-39286
                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-874-991C-450
US-10-492-928A-71
US-10-416-249-588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               260 ACTICAACTITGCIGGATAGICTIG 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ACTTCAACTTTGCTGGATAGTCTTG 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Rattus norvegicus
US-10-719-956-99595
       US-10-719-956-99595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               562115,
589182,
8, Appli
9, Appli
9, Appli
9, Appli
95596, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 99595, A
Sequence 151661,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  200130,
283879,
302980,
338333,
533192,
559423,
                                                                                                                                                            March 12, 2006, 05:43:55; Search time 794 Seconds (without alignments) 4290.912 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  338332,
533193,
559422,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            560901,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        283880,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302981,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                           412
1 TATCAGCTAGTGGGTGCACC......AAATGTGTTTTCCACTGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications NA Main:*

1: /cgn2 6/ptodata/1/pubpna/USO7_PUBCOMB.seq:*

2: /cgn2 6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*

3: /cgn2 6/ptodata/1/pubpna/USO9A_PUBCOMB.seq:*

4: /cgn2 6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

5: /cgn2 6/ptodata/1/pubpna/USIOA_PUBCOMB.seq:*

6: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*

7: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*

8: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*

9: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*

9: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*

10: /cgn2 6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:*
                          GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-719-956-200130
US-10-719-956-283879
US-10-719-956-3828879
US-10-719-956-3828879
US-10-719-956-533192
US-10-719-956-533192
US-10-719-956-569101
US-10-719-956-569102
US-10-719-956-589102
US-10-726-422-8
US-10-726-8
US-10-726-8
US-10-726-8
US-10-726-8
US-10-726-8
US-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-719-956-338332
US-10-719-956-533193
US-10-719-956-559422
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                  9793542 seqs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                   - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                             IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length DB
                                                                                                                                                                                                                                                      US-10-726-422-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l length: 10
| length: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq
Maximum DB seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OM nucleic
                                                                                                                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database
                                                                                                                                                                Run on:
```

ö

Gaps

ö

```
US-10-719-956-533192

Sequence 533192, Application US/10719956

Sequence 533192, Application US/10719956

Sequence 533192, Application US/10719956

FULL CAPERAL INFORMATION:

TILLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527.11-20

CURRENT APPLICATION NUMBER: US/10/719,956

CURRENT FILING DATE: 2003-11-20

FRIOR APPLICATION NUMBER: 60/427,836

FRIOR APPLICATION NUMBER: 60/427,836

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 533192

LENGTH: 25

LENGTH: 25

LENGTH: 25
                                              APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 35.71
CURRENT APPLICATION WINBER: US/10/719,956
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION WINBER: 60/427,836
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 302980
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REPERENCE: 3527.
CURRENT APPLICATION NUMBER: US/10/719,956
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,836
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 6.1%; Score 25; DB 7; Le Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 6.1%; Score 25; DB 7; Best Local Similarity 100.0%; Pred. No. 5.2e+0 Matches 25; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               239 GAGATICTCCTCTCAAGAGCAACTT 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 338333, Application US/10719956 Publication No. US20040146910A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GAGATTCTCCTCTCAAGAGCAACTT 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74 GAAGCTTTGGAACGAGCAGTCAAGA 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 GAAGCTTTGGAACGAGCAGTCAAGA 25
                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Rattus norvegicus
US-10-719-956-302980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-719-956-338333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-719-956-338333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 338333
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                     ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                            US-10-719-956-200130

Sequence 200130, Application US/10719956

Publication No. US20040146910A1

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INFENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 3527.1

CURRENT APPLICATION NUMBER: US/10/719,956

CURRENT APPLICATION NUMBER: US/10/719,956

PRIOR PLING DATE: 2003-11-20

PRIOR PLING DATE: 2002-11-20

PRIOR PLING DATE: 2002-11-20

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 200130

LENGTH: 25

"LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 283879, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Kue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 352.1.
CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT APPLICATION NUMBER: 60/427,836
PRIOR FILING DATE: 2003-11-20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 6.1%; Score 25; DB 7; Length 25; Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                  Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 6.1%; Score 25; DB 7; Length 25; Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                                                                   0; Indels
                                                                            6.1%; Score 25; DB 7; Le
Local Similarity 100.0%; Pred. No. 5.2e+03;
Nes 25; Conservative 0; Mismatches 0;
                                                                                                                                                                                    368 AGGTCAGCATTTAACACCAATCATT 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      317 ATGTAGACATTTTAGGCGGTTCCTG 341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              170 GAAAAGAATACTCTTCCTTCGAAGG 194
                                                                                                                                                                                                                             1 AGGTCAGCATTTAACACCAATCATT 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ATGTAGACATTTTAGGCGGTTCCTG 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 5
US-10-719-956-302980
; Sequence 302980, Application US/10719956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-200130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-283879
; ORGANISM: Rattus norvegicus
US-10-719-956-151661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
US-10-719-956-283879
                                                                            Query Match
```

ö

Gape

ô

ò

```
184 TCCTTCGAAGGAAACTATCCAGCAG 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     343 TAGGITCITAAGIACCCIGACIGAA 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 recrreaaggaaacrarecageag 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 raggrictraagracccrgacrgaa 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 02019
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Rattus norvegicus
US-10-719-956-589182
                                                                                                                                                                                                                                                                                                            , ORGANISM: Rattus norvegicus US-10-719-956-562115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
                                                                                                                                                                                                                                        SEQ ID NO 562115
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-874-736-8
                                                                                                                                                                                                                                                                                          TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 560901, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICATH: Xue Mei Zhou
; TILE OF INVENTION: Methods of Genetic Analysis of Rat
; TILE OF INVENTION: Wethods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR PILING DATE: 2003-11-20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 35.71
CURRENT APPLICATION NUMBER: US/10/719,956
CURRENT FILING DATE: 2003-11-20
PRIOR PILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 559423
LENGTH: 25
                                             Query Match 6.1%; Score 25; DB 7; Length 25; Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 6.1%; Score 25; DB 7; Length 25; Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 6.1%; Score 25; DB 7; Length 25; Best Local Similarity 100.0%; Pred. No. 5.2e+03; Matches 25; Conservative 0; Mismatches 0; Indels
                                                                                                                                             296 GTTTCTGTAAACCTATCCAATATGT 320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         329 TAGGCGGTTCCTGATAGGTTCTTAA 353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 562115, Application US/10719956
; Publication No. US20040146910A1
                                                                                                                                                                                                                                                                                                            Sequence 559423, Application US/10719956
Publication No. US20040146910A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           45 TAGCTGCGGACAGAATTGCTGGCCT 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TAGCTGCGGACAGAATTGCTGGCCT 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 radecedriccrearacericria 25
                                                                                                                                                                                          1 Grircigraacciarccaarargr 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
CRGANISM: Rattus norvegicus
US-10-719-956-560901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GRGANISM: Rattus norvegicus US-10-719-956-559423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-719-956-562115
US-10-719-956-533192
                                                                                                                                                                                                                                                                                          US-10-719-956-559423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-719-956-560901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
```

g

ઠે

RESULT 10

δ

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 589182, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; TITLE OF INVENTION UMBER: US/10/719,956
; CURRENT APPLICATION NUMBER: 05/427,836
; PRIOR APPLICATION NUMBER: 60/427,836
; RICOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 589182
GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 3527.1
CURRENT PEPLICATION WUMBER: US/10/719,956
CURRENT PILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,836
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ. ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET: 130 WATER STREET
CITY: BOSTON
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Guery Match 6.1%; Score 25; DB 7; Le
Best Local Similarity 100.0%; Pred. No. 5.2e+03;
Matches 25; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
6.1%; Score 25; DB 7; Lu
Best Local Similarity 100.0%; Pred. No. 5.2e+03;
Matches 25; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 8, Application US/09874736
Publication No. US20020183496A1
GENERAL INFORMATION:
APPLICANT: BRUCE R. ZETTER AND LERE BAO
TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
PROTEIN AND USES THEREOF
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                             Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET: 130 WATER STREET
CITY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                             DB 3; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 8, Application US/10726422
Publication No. US20040101910A1
GENERAL INFORMATION:
APPLICANT: BRUCE R. ZETTER AND LERE BAO
TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
PROTEIN AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: STATERQ Version 1.5
SOFTWARE: FastERQ Version 1.5
CURRENT APPLICATION NUMBER: US/10/726,422
FILING DATE: 03-Dec-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/801,796
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/64,856
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION: NUMBER: 34,235
                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 5.8%; Score 24; DB Best Local Similarity 100.0%; Pred. No. 9.6 Matches 24; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 46507
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX: 200291 STRE
                                                                                                                                                                                                                                                                                                           ORIGINAL SOURCE;
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-874-736-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24 ACCCTGACTGAAGGTCAGCATTT 1
                                                                                                                                               TYPB: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYROTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: «Unknown»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
                        TELEFAX: 617-523-6440
TELEX: 200291 STRE
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 24 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-726-422-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 9.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET: 130 WATER STREET
CITY: BOSTON
SOFTWARE: FABELSEU VELLE
SOFTWARE: FABELSEU VELLE
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/874,736
FILING DATE: 19-NO. US20020183496A1-2001
CLASSIFICATION STATA:
APPLICATION NUMBER: 08/801,796
FILING DATE: 14-FEB-1997
ATTONEY/AGENT INFORMATION:
NAME: DAVID, RESNICK SOFTENSHIPS ATTONEY/AGENT INFORMATION:
NAME: DAVID, RESNICK SOFTENSHIPS ATTONEY/AGENT INFORMATION:
TELECOMMUNICATION INFORMATION:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FRACEO Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/874,736
FILING DATE: 19-NO. US20020183496A1-2001
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 13
US-09-874-736-9/C
; Sequence 9, Application US/09874736
; Publication No. US20020183496A1
; GENERAL INFORMATION:
; TAPLICANT: BRUCE R. ZETTER AND LERE BAO
; TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
PROTEIN AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/801,796
APPLICATION NUMBER: 08/801,796
ATTORNEY/ACENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FRAGMENT TYPE: «Unknown»

CALGINAL SOURCE:

SEQUENCE DESCRIPTION: SEQ ID NO: 8:

SEQUENCE DESCRIPTION: SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 02019
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 5.8%; Score 24; DB 7; Length 24; Best Local Similarity 100.0%; Pred. No. 9.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                          Query Match 5.8%; Score 24; DB 7; Length 24; Best Local Similarity 100.0%; Pred. No. 9.6e+03; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                        PROTEIN AND USES THEREOF
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS: ADDRESSE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET: 130 WATER STREET
CITY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READBLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTEM: DOS
SOFTWARE: FASTEM: DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/801,796
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/664,856
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/664,856
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/664,856
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 46507
TELEPAN: 617-523-440
TELEPAN: 617-523-440
TELEPAN: 617-523-440
TELEPAN: 200291 STRE
INFORMATION FOR SEO ID NO: 9:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                             Sequence 9, Application US/10726422
Publication No. US20040101910A1
GENERAL INFORMATION:
APPLICANT: BRUCE R. ZETTER AND LERE BAO
TITLE OF INVENTION: HUMAN THYMOSIN 15 G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear

TOPOLOGY: linear

HYPOTHETICAL: NO

ANTI-SENSE: NO

PRAGMENT TYPE: «UNKNOWN>

ORIGINAL SOURCE:

SEQUENCE DESCRIPTION: SEQ ID NO: 9:

US-10-726-422-9
; FRACMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-10-726-422-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               356 ACCCTGACTGAAGGTCAGCATTT 379
                                                                                                                                                                                                  1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
ZIP: 02019
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                     RESULT 15
US-10-726-422-9/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                       g
```

Search completed: March 12, 2006, 06:57:44 Job time : 795 secs

THIS PAGE BLANK (USPTO)

```
APPLICANT: GARGOLII et al.
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same FILE REFERENCE: 21402-225
CURRENT APPLICATION NUMBER: US/11/113,424
CURRENT FILING DATE: 2005-04-21
PRICA APPLICATION NUMBER: 60/256,704
PRICA FILING DATE: 2000-12-19
PRICA RAPLICATION NUMBER: 60/311,590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-113-424-90
; Sequence 90, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 515721
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 89391, A Sequence 89391, A Sequence 89391, A Sequence 773890, Sequence 773890, Sequence 210505, Sequence 210507, Sequence 145807, Sequence 145807, Sequence 50711, A Sequence 50711, A Sequence 50711, A Sequence 239869, Sequence 301096,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 515721,
Sequence 90, Appl
Sequence 284665,
Sequence 340130,
                                                                                                                                         March 12, 2006, 05:58:46 ; Search time 328 Seconds (without alignments) 2898.190 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                        1 TATCAGCTAGTGGCTGCACC......AAATGTGTTTTCCACTGCTC 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications NA_New:*

(cgn2_6/ptodata/2/pubpna/USOB_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USOB_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO9_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO9_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seqq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seqq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seqq:*

(cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seqq:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 US-11-121-849-515721

2 US-11-113-424-90

2 US-11-121-849-340130

2 US-11-121-849-340130

US-10-932-182A-89391

US-10-932-182A-89391

US-10-932-182A-89391

US-11-121-849-262586

US-11-101-244-773890

US-11-101-244-773890

US-10-31-14A-1060248

US-11-121-849-210505

US-11-121-849-210505

US-10-932-182A-145807

US-10-932-182A-145807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                        7673375 segs, 1153648444 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                             - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                            IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                       US-10-726-422-1
412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           seq length: 10
seq length: 40
                                                                                                                                                                                                                                            Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                             OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                   Seguence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                               Run on:
```

```
US-11-121-849-515721
Sequence 515721, Application US/11121849
Sequence 515721, Application US/11121849
Publication Wo. US20050272080A1
GENERAL INFORMATION:
APPLICANT: John Palma
TITLE OF INVENTION: Microarrays
FILE REFERENCE: 3684.1
CURRENT APPLICATION NUMBER: 05/11/121,849
CURRENT FILING DATE: 2005-03-03
PRIOR PILING DATE: 2006-05-03
PRIOR PILING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 673904
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
                                         Sequence 324704,
Sequence 324704,
Sequence 324704,
Sequence 324704,
Sequence 132770,
Sequence 151755,
Sequence 130334,
Sequence 151760,
Sequence 1024160,
Sequence 1024161,
Sequence 128712,
Sequence 128712,
Sequence 128712,
Sequence 128718,
Sequence 128712,
Sequence 128718,
Sequence 14851, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
2 US-11-121-849-407098

US-10-489-866-7

US-11-101-244-324704

US-11-101-244-324704

US-11-101-244-324704

US-11-083-784-324704

US-11-083-784-324704

US-11-083-784-324704

US-11-083-784-324704

US-11-083-784-324704

US-11-0922-182A-957870

US-10-932-182A-130334

US-10-932-182A-130334

US-10-932-182A-130334

US-10-912-184A-157780

US-10-932-182A-130334

US-11-121-849-507249

US-11-121-849-507249

US-11-136-527-128712

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713

US-11-136-527-128713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
5.3%; Score 21.8; DB 12;
Best Local Similarity 92.0%; Pred. No. 3.1e+04;
Matches 23; Conservative 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                       ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        177 ATACTCTTCCTTCGAAGGAACTAT 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ATACTCTTCCCTCAAAGGAAACTAT 25
       ; ORGANISM: Homo sapien
US-11-121-849-515721
```

```
Sequence 89391, Application US/10932182A
Fublication No. US20060046253A1
Fublication No. US20060046253A1
Fublication No. US2006004625A1
Fublication No. US2006004625A1
Fublication No. US2006004625A1
Fublication NoRAMURA, NORIHISA
APPLICANT: NOAMAN, YUKKO
APPLICANT: FUJIMURA, TOMOKO
APPLICANT: FUJIMURA, TOMOKO
FUJILE OF INVERTION METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FULE REPERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT APPLICATION DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMUAN, NORIHISA
APPLICANT: KODAMA, YUKIKO
APPLICANT: KODAMA, YUKIKO
APPLICANT: KODAMA, YUKIKO
APPLICANT: FUJIMURA, TOMOKO
APPLICANT: FUJIMURA, TOMOKO
APPLICANT: ASHIKARI, TOSHIHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REFERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT FILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.4%; Score 18.2; DB 7; Length 25; 87.0%; Pred. No. 2.2e+05;
CURRENT APPLICATION NUMBER: US/11/121,849
CURRENT FILING DATE: 2005-05-03
PRIOR APPLICATION NUMBER: 60,567,949
PRIOR FILING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 673904
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 340130
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                   Query Match
4.5%; Score 18.6; DB 12;
Best Local Similarity 84.0%; Pred. No. 1.8e+05;
Matches 21; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         193 GGAAACTATCCAGCAGGAGAAGAA 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 89391, Application US/10932182A Publication No. US20060046253A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25 GGAAATGATTCAGCGGGAGAAGAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             225 AAAGATCATAAAATGAGATTCTC 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA; CACCharomyces pastorianus US-10-932-182A-89391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25 AAAGATAATGAAAAGAGATTCTC 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Saccharomyces pastorianus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20; Conservative
                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Homo sapien
US-11-121-849-340130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-932-182A-89391/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -10-932-182A-89391/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-932-182A-89391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 89391
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 89391
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 284665

Sequence 284665, Application US/11121849

Sequence 284665, Application US/11121849

Sequence 284665, Application US/11121849

GENERAL INFORMATION:

APPLICANT: John Palma

TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded STITLE OF INVENTION: Microarrays

TITLE OF INVENTION: Microarrays

TITLE OF INVENTION: Microarrays

CURRENT APPLICATION NUMBER: US/11/121,849

CURRENT FILING DATE: 2004-05-03

PRIOR FILING DATE: 2004-05-03

NUMBER OF SEQ ID NOS: 673804

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 340130, Application US/11121849
Publication No. US20050272080A1
GRNERAL INFORMATION:
APPLICANT: John Palma
TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded
TITLE OF INVENTION: Microarrays
FILE REFERENCE: 3684.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Description of Artificial Sequence: PCR primer US-11-113-424-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match

4.9%; Score 20.2; DB 12; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.4e+04;
Matches 22; Conservative 0; Mismatches 3; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
4.7%; Score 19.4; DB 12; Length 25;
Best Local Similarity 95.2%; Pred. No. 1.2e+05;
Matches 20; Conservative 0; Mismatches 1; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98 ATGAGTGATAAACCAGACTTATCAG 122
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 60/257,314
PRIOR APPLICATION NUMBER: 60/311,613
PRIOR APPLICATION NUMBER: 60/311,613
PRIOR FILING DATE: 2001-08-10
PRIOR PELING DATE: 2001-08-29
PRIOR PELING DATE: 2001-08-29
PRIOR PELING DATE: 2001-07-24
PRIOR PELING DATE: 2001-07-24
PRIOR PELING DATE: 2001-07-24
PRIOR PELING DATE: 2001-07-14
PRIOR PILING DATE: 2001-05-19
PRIOR PILING DATE: 2001-05-19
PRIOR PILING DATE: 2001-05-19
PRIOR APPLICATION NUMBER: 60/294,075
PRIOR PILING DATE: 2001-05-02
NUMBER OF SEQ ID NOS: 190
SOFTWARE: PARCHIN VET: 2.1
SEQ ID NO 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 Argagranaaacccaacrrgrcag 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        292 ACATGITICIGIAAACCIAIC 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 ACATGTTCTGTGAACCTATC 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapien
US-11-121-849-284665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-121-849-340130/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
```

ઠે

ò

2 AGUCAAGAUGAGUGAUAA 19

```
APPLICANT: Benevich, Isaac
APPLICANT: Biller, Kvuzat
APPLICANT: Shiler, Kvuzat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
TITLE OF INVENTION: uses thereof
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1060248
LENGTH: 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                  | PUBLICATION NO. USZU0902454/5A1|
| PUBLICARIE | PUBLICATION NO. USZU0902454/5A1|
| APPLICANT: Dharmacon, Inc.
| APPLICANT: Rhvorova, Anaetasia | APPLICANT: Reynolds, Angela | APPLICANT: Leake, Devin | APPLICANT: Marshall, William | TITLE OF INVENTION: Functional and Hyperfunctional siRNA | FILE REFERENCE: 13499US | CURRENT APPLICATION NUMBER: US/10/714,333 | PRIOR APPLICATION NUMBER: US/10/714,333 | PRIOR PLILING DATE: 2003-09-10 | PRIOR PLILING DATE: 2002-11-14 | NUMBER OF SEQ ID NOS: 1591911 | SOFTWARE: Proprietary | SEQ ID NO 778890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.4%; Score 18; DB 11; Length 19; 77.8%; Pred. No. 2.3e+05; tive 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.4%; Score 18; DB 8; Length 26; 73.1%; Pred. No. 2.58+05; Live 2; Mismatches 5; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1060248, Application US/10310914A Publication No. US20060003322A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          199 TATCCAGCAGGAGAAAGAATATAATC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-083-784-773890
; Sequence 773890, Application US/11083784
; Publication No. US20050245475A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 89187, Application US/11121849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91 AGTCAAGATGAGTGATAA 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 AGUCAAGAUGAGUGAUAA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 77.8
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 73.1:
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-773890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-310-914A-1060248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-310-914A-1060248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 11
US-11-121-849-89187/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: John Palma
TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded (TITLE OF INVENTION: Microarrays
FILE REFERENCE: 3684.1
CURRENT PILING DATE: 2005-03
FILE REPERENT FILING DATE: 2005-03
FILE REPERENT FILING DATE: 2004-05-03
FILE REPERENT
                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 4.4%; Score 18.2; DB 12; Length 25; Best Local Similarity 87.0%; Pred. No. 2.2e+05; Matches 20; Conservative 0; Mismatches 3; Indels
Query Match
4.4%; Score 18.2; DB 7; Length 25;
Best Local Similarity 87.0%; Pred. No. 2.2e+05;
Matches 20; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Khorova, Anastasia
APPLICANT: Khorova, Angela
APPLICANT: Reynolds, Angela
APPLICANT: Respendia, Angela
APPLICANT: Marchall, William
APPLICANT: Marchall, William
APPLICANT: Scaringe, Stephen
ITILE OF INVENTION: Functional and Hyperfunctional sirNA
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: 60/502,050
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR PLICATION NUMBER: 60/426,137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 4.4%; Score 18; DB 10; Length 19
Best Local Similarity 77.8%; Pred. No. 2.3e+05;
Matches 14; Conservative 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 262586, Application US/11121849
Publication No. US20050272080A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 773890, Application US/11101244
Publication No. US20050246794A1
PUBLICANT. INFORMATION:
APPLICANT: Dharmacon, Inc.
                                                                                                                                                                                225 AAAGATCATAAAATGAGATTCTC 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             214 AGAATATAATCAAAGATCATAAA 236
                                                                                                                                                                                                                                                                    25 AAAGATAATGAAAAGAGATTCTC 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 AGAATACACTCAAAGATCAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    91 AGTCAAGATGAGTGATAA 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: RNA
CORGANISM: Homo sapiens
US-11-101-244-773890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Homo sapien
US-11-121-849-262586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-101-244-773890
```

US20050272080A1

```
APPLICANT: John Palma
TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded St
TITLE OF INVENTION: Microarrays
TITLE OF INVENTION: Microarrays
FITLE OF INVENTION: Microarrays
FILLE CURRENT TAPPLICATION NUMBER: US/11/121,849
CURRENT APPLICATION NUMBER: 60/567,949
PRIOR APPLICATION NUMBER: 60/567,949
PRIOR APPLICATION NUMBER: 60/567,949
PRIOR FILLING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 671904
SEQ ID NO S: 671904
SEQ ID NO 210507
LENGTH: 25
                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 145807, Application US/10932182A
; Sequence 145807, Application US/10932182A
; Publication No. US20060046253A1
; GENERAL INFORMATION:
; APPLICANT: NAKAWURA, VOSHHIRO
; APPLICANT: KODAWA, YUKKO
; APPLICANT: KODAWA, YUKKO
; APPLICANT: KODAWA, YUKKO
; APPLICANT: RUIMURA, TOMOKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF ERQ ID NOS: 197023
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 145807
; LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                    Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                           Query Match 4.3%; Score 17.8; DB 12; Length 25; Best Local Similarity 90.5%; Pred. No. 2.8e+05; Matches 19; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.3%; Score 17.8; DB 12;
90.5%; Pred. No. 2.8e+05;
tive 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match

4.3%; Score 17.6; DB 7;
Best Local Similarity 83.3%; Pred. No. 3.1e+05;
Matches 20; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 210507, Application US/11121849; Publication No. US20050272080A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60 TIGCIGGCCTAGTAGAAGCTTTGG 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 rrerreccaraccacaaccrirec 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA; ORGANISM: Saccharomyces pastorianus US-10-932-182A-145807
                                                                                                                                                                                                                                    144 CAAAGTTGAAGAAGACTAATA 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  144 CAAAGTTGAAGAAGACTAATA 164
                                                                                                                                                                                                                                                                                  CAAAGGTGAAGAAGAATAATA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 CAAAGGTGAAGAAGAATAATA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 90.5'
Matches 19; Conservative
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo Bapien
US-11-121-849-210506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Homo sapien
US-11-121-849-210507
                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-11-121-849-210507/c
                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 210505, Application US/11121849
Sequence 210505, Application US/11121849
Publication No. US20050272080A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded & TITLE OF INVENTION: Microarrays
TITLE REFERENCE: 3684.1
CURRENT APPLICATION NUMBER: US/11/121,849
CURRENT FILING DATE: 2005-05-03
PRIOR FILING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 673904
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 2015055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 210506, Application US/11121849
Publication No. US2050272080A1
Publication No. US2050272080A1
GENERAL INPORMATION:
APPLICANT: John Palma
TITLE OF INVENTION: Microarrays
TITLE OF INVENTION: Microarrays
FILE REFERENCE: 3684.1
CURRENT FILING DATE: 2005-05-03
PRIOR FILING DATE: 2006-05-03
PRIOR FILING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 673904
SOTTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 210506
                                             APPLICANT: John Palma
TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded (TITLE OF INVENTION: Microarrays
FILE FOR INVENTION: Microarrays
FILE REPERBNCE: 3684.1
CURRENT APPLICATION NUMBER: US/11/121,849
CURRENT FILING DATE: 2005-05-03
PRIOR APPLICAN NUMBER: 60/567,949
PRIOR FILING DATE: 2004-05-03
NUMBER OF SEQ ID NOS: 673904
SEQ ID NO 89187
LENGTH: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
4.3%; Score 17.8; DB 12; Length 25;
Best Local Similarity 90.5%; Pred. No. 2.8e+05;
Matches 19; Conservative 0; Mismatches 2; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
4.3%; Score 17.8; DB 12; Length 25;
Best Local Similarity 90.5%; Pred. No. 2.8e+05;
Matches 19; Conservative 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       217 ATATAATCAAAGATCATAAAA 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          144 CAAAGTTGAAGAAGACTAATA 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23 AGATAATCAAAGAGCATAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 CAAAGGTGAAGAAGAATAATA 4
                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapien
US-11-121-849-89187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-210505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
US-11-121-849-210506/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-121-849-210505/c
```

ઠે

g

THIS PAGE BLANK (USPTO)

```
MOLECULE TYPE: CDNA HYPOTHETICAL: NO ANTI-SENSE: NO FRACHENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Appli
Sequence 9, Appli
Sequence 9, Appli
Sequence 3, Appli
Sequence 3, Appli
Sequence 4, Appli
Sequence 9, Appli
Sequence 9, Appli
Sequence 9, Appli
Sequence 17, Appli
Sequence 17, Appli
Sequence 174, Appli
Sequence 174, Appli
Sequence 174, Appli
Sequence 175, Appli
Sequence 175, Appli
Sequence 175, Appli
Sequence 176, Appli
                                                                                                    March 12, 2006, 00:39:01; Search time 155 Seconds (without alignments) 4724.874 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                 412
1 TATCAGCTAGTGGCTGCACC......AAATGTGTTTTCCACTGCTC 412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Issued Patents NA:*

1: /cgn2 6/ptodata/1/ina/5_COMB.seq:*

2: /cgn2 6/ptodata/1/ina/6_COMB.seq:*

3: /cgn2 6/ptodata/1/ina/6B_COMB.seq:*

4: /cgn2 6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2 6/ptodata/1/ina/6B_COMB.seq:*

6: /cgn2 6/ptodata/1/ina/PCTUS_COMB.seq:*

7: /cgn2 6/ptodata/1/ina/PP_COMB.seq:*

8: /cgn2 6/ptodata/1/ina/PP_COMB.seq:*

9: /cgn2 6/ptodata/1/ina/RE_COMB.seq:*

9: /cgn2 6/ptodata/1/ina/RE_COMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-801-796-8

US-08-931-875-9

US-08-931-877-9

US-08-664-887A-3

US-08-664-887A-4

US-09-069-484-8

US-09-069-484-9

US-09-135-599-4

US-09-135-599-4

US-09-135-599-4

US-09-135-599-4

US-09-135-599-4

US-09-135-599-4

US-09-135-599-4

US-09-135-599-7

US-09-135-599-7

US-09-135-7

US-08-559-7

US-08-559-7

US-08-993-170A-75

US-08-993-170A-75

US-08-993-775B-75

US-08-993-775B-75

US-08-993-775B-75
                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                               1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                   OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                       IDBNTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                               US-10-726-422-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Score Match Length
                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 10 Maximum DB seq length: 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Perfect score:
                                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence:
                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database
                                                                                                          Run on:
```

Sequence 384, Sequence 384, Sequence 384, Sequence 376, Sequence 376, Sequence 376, Sequence 376, Sequence 376, Sequence 376, Sequence 386, Sequence 386, Sequence 386, Sequence 387, Sequence 387, Sequence 386,	ENE, REOF CUSHMAN
36 2 US-08-411-796-384 36 3 US-08-559-384 36 2 US-08-559-384 36 2 US-08-411-796-378 36 2 US-08-411-796-378 36 2 US-08-411-796-386 36 2 US-08-411-796-386 37 3 US-08-411-796-386 38 3 US-08-471-039-378 39 3 US-08-471-039-378 30 3 US-08-559-390-378 31 US-08-559-390-378 32 US-08-559-390-386 33 US-08-559-390-386 34 US-08-559-390-386 35 US-08-559-390-386 36 PCT-US93-11198-378 36 PCT-US93-11198-378 37 US-08-559-390-386 38 US-08-559-390-386 39 US-08-559-390-386 39 US-08-559-390-386 30 US-08-559-390-386 31 US-08-559-390-386 32 US-08-559-390-386 33 US-08-559-390-386 34 US-08-559-390-386 35 US-08-559-390-386 36 PCT-US93-11198-378 37 US-08-559-390-386	IGNMENTS ERE BAO IN 15 G USES THE BERTS & BERTS &
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ALIG RESULT 1 Squence 8, Application US/08664856A Squence 8, Application US/08664856A Patent No. 5663071 GENERAL INPORMATION: GENERAL INPORMATION: HUMAN THYMOSII TITLE OF INVENTION: HUMAN THYMOSII TOUNTRY: BOSTON STREET 130 WATER STREET CITY: BOSTON STREET 130 WATER STREET COUNTRY: USA ZIP: 02019 COMPUTER: BEADABLE FORM: MEDIUM TYPE: DIARCHEC COMPUTER: IBM COMPACIAL MEDIUM TYPE: DIARCHEC COMPUTER: IBM COMPACIAL MEDIUM TYPE: DIARCHEC COMPUTER: 17 JUN 1996 CLASSIFICATION DATA: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION: TELECOMUNICATI
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RESULT US-08-08-08-08-08-08-08-08-08-08-08-08-08-

```
GENERAL INFORMATION:

APPLICANT: BRUCE R. ZETTER AND LERE BAO
ITILE OF INVENTION: HUMAN THYMOSIN 15 GENE,
TITLE OF INVENTION: PROTEIN AND USES THEREOF
NUMBER OF SEQUENCES: 13
CORRESPONDENCES: 13
CORRESPONDENCE ADDRESSS:
ADDRESSEE: DIKE, BROWSTEIN, ROBERTS & CUSHWAN
STREET: 130 WATER STREET
COUNTRY: BOSTON
STATE: MA
COUNTRY: USA
COUNTRY: USA
COUNTRY: USA
COUNTRY: IBM Compatible
OMPUTER READABLE FORM:
MEDIUM TYPE: Dikkette
COMPUTER READABLE FORM:
MEDIUM TYPE: Dikkette
COMPUTER: 130 WATER STREET

RECOMMUNICATION NUMBER: 34,235
REGISTRATION NUMBE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-01-796-9/c

US-08-01-796-9/c

Sequence 9, Application US/08801796

Patent No. 5721337

GENERAL INFORMATION:

APPLICANT: BRUCE R. ZETTER AND LERE BAO

TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,

TITLE OF INVENTION: PROTEIN AND USES THEREOF

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESSE:

ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN

STREET: 130 WATER STREET

CONTY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 5.8%; Score 24; DB 2; Lv
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 24; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: MA
COUNTRY: USA
ZIP: 02019
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linea
MOLECULE TYPE: CD
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-801-796-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                            Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                   US-08-64-8564-9/C

1 Sequence 9, Application US/08664856A

2 Sequence 9, Application US/08664856A

3 PAPPLICANT: BAUCE R. ZETTER AND LERE BAO

4 TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,

5 TITLE OF INVENTION: PROTEIN AND USES THEREOF

5 NUMBER OF SEQUENCES: 13

6 CORRESPONDENCE ADDRESS:

7 ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHWAN

5 STREET: 130 WATER STREET

7 CITY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CUUNTY: USA
ZIP: 02019
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: FastSEQ Version 1.5
CURRENT APPLICATION NUMBER: US/08/664,856A
FILING DATE: 1 JUN 1996
CLASSIFICATION NUMBER: BAPLICATION NUMBER: FILING DATE:
APPLICATION NUMBER: 46507
FILING DATE: ATTORNEY/AGENT INFORMATION:
NAMME: DAVIO, RESNICK: REGISTRATION INFORMATION:
TELECOMMUTCATION INFORMATION:
TELECOMMUTCATION INFORMATION:
TELECOMMUTCATION INFORMATION:
TELECOMMUTCATION INFORMATION:
TELECOMMUTCATION INFORMATION:
TELECOMMUTCATION OF 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: NUCLEIC STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                356 ACCCTGACTGAAGGTCAGCATTT 379
                                                                                                                                                                                                          1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                  1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 3
US-08-801-796-8
; Sequence 8, Application US/08801796
; Patent No. 5721337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: CDNA HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: BOS
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-664-856A-9
                US-08-664-856A-8
```

Gaps ö

g

Length 24;

```
COUNTRIE : USAN

ZIP: GOUNTRIE: USAN

ZIP: GOMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: Diskette

                                              TELECOMMUNICATION INFORMATION:
                                                                          TELEPHONE: 617-523-3400
TELEPAK: 617-523-6440
TELEX: 200291 STE
INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS: LENGTH: 24 base pairs LENGTH: aucleic acid STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
CORIGINAL SOURCE:
US-08-931-877-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application US/08931877
; Sequence 8, Application US/08931877
; Sequence 8, Application US/08931877
; GENERAL INFORMATION:
    APPLICANT: BRUCE N. ZETTER AND LERE BAO
    TITLE OF INVENTION: PROTEIN AND USES THEREOF
    NUMBER OF SEQUENCES: 13
    CORRESPONDENCES: 13
    CORRESPONDENCES: 13
    ADDRESSEE: DIKK, BRONSTEIN, ROBERTS & CUSHWAN STREET: 130 WATER STREET
    COUNTRY: USA
    COUNTRY: USA
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
SOFTWARE: APPLICATION DATA:
APPLICATION NUMBER: US/08/801,796
FILING DATE: 14-FEB-1997
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/64,856
FILING DATE: 17 JUN 1996
ATTORNEY/AGENT INFORMATION:
RECISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 46507
TELEPHONE: 617-523-3400
TELEPHONE: 617-523-3400
TELEPHONE: 617-523-6440
TELEPHONE: 617-523-6440
TELEPHONE: 617-523-6440
TELEPHONE: 700291 STRE
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPPRAJING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,877
FILING DATE: 17-SEP-1997
CLASSIFICATION NUMBER: 08/664,856
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/664,856
FILING DATE: 17 UN 1996
ATTOCNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,2557
BEGEBENSTE AND NUMBER: 34,2557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24 ACCCTGACTGAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 46507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: cDNA HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL: N
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-801-796-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-931-877-8
```

```
Gape
                                                ö
Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                       Sequence 9, Application US/08931877
; Sequence 9, Application US/08931877
; Batent No. 5831031;
; GENERAL INFORMATION:
; APPLICANT: BRUCE R. ZETTER AND LERE BAO
; TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
; TITLE OF INVENTION: PROTEIN AND USES THEREOF
; NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET
CITY: BOSTON
STREET: MA
SCOUNTRY: USA
ZIP:
```

```
FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-664-857A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-069-484-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                               US-08-664-857A-3

Sequence 3, Application US/08664857A

Sequence 3, Application US/08664857A

PRECENT NO. SESSEMATION:

APPLICANT: BRUCE R. ZETTER AND LERE BAO

TITLE OF INVENTION: A METHOD FOR DIAGNOSIS OF

TITLE OF INVENTION: A METHOD FOR DIAGNOSIS OF

TITLE OF INVENTION: BACTON OF SEQUENCES: B

CORRESPONDENCE ADDRESS:

ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN

STREET: LAG WATER STREET

CITY: BOSTON

STREET: MA

ZIP: 02019
                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ó,
                                                                                      Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 5.8%; Score 24; DB 2; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER REABBLE FORM:
MEDIUM TYBE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/664,857A
FILING DATE: 17 JUN 1996
CLASSIFICATION 1435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                            356 ACCCTGACTGAAAGGTCAGCATTT 379
                                                                                                                                                                                                  24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION ....

FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 46403
TELECHMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-3400
TELEFAX: 200291 STRE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
mucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-931-877-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HYPOTHETICAL: N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
```

RESULT 8 US-08-664-857A-4/C

```
Sequence 4, ADDICATION US/08664657A

PRESENT SINCE R. ZETTER AND LERE BAO

JULIA OF INVESTION: A WETHON POR DIAGNOSIS AND PROGNOSIS OF

JULIA OF INVESTION: A WETHON POR DIAGNOSIS AND PROGNOSIS OF

JULIA OF INVESTION: A WETHON POR DIAGNOSIS AND PROGNOSIS OF

JULIA OF INVESTION: A WETHON POR DIAGNOSIS AND PROGNOSIS OF

JULIA OF INVESTION: A WETHON POR DIAGNOSIS AND PROGNOSIS OF

STREET: 130 WATER STREET

COMPUTER SEABLABLE PORM:

MATHER STREET: AND AND PRESENCE

COMPUTER SEABLABLE PORM:

MATHER STREET: A STREET

MATHER STREET: A STREET

MATHER STREET: A STREET

MATHER STR
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-135-599-3

Sequence 3, Application US/09135599

Sequence 3, Application US/09135599

Patent No. 6150177

Patent No. 6150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 5.8%; Score 24; DB 3; Best Local Similarity 100.0%; Pred. No. 7.6e+0 Matches 24; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: MA

COUNTRY: USA

ZIP: 02019

COMPUTER READBLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/135,599
FILING DATE: 18 AUG 1998
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/664,857
FILING DATE: 17 JUN 1996
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REFERENCE/DOCKET NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 46403
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELERAX: 200291 STRE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               356 ACCCTGACTGAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24 Accercacreaaaccreaccarrr 1
                                                              NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
REFRENCE/DOCKET NUMBER: 46507
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-640
TELER: 200291 STRE
TELEX: 200291 STRE
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE: US-09-069-484-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5.8%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 7.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9, Application US/09069484
; Patent No. 6017710;
; GENERAL INFORMATION:
; TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
; TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
; TITLE OF INVENTION: HOWEN THYMOSIN 15 GENE,
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
ADDRESSE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN STREET: 130 WATER STREET
CITY: BOSTON
STREET: MA
COUNTRY: USA
ZIP: ACCOUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 02019
ZIP: 02019
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/069,484
FILING DATE:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARR: FRESENG Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/069,484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION:
APPLICATION NUMBER: 08/801,796
FILING DATE: 14-FBB-1997
APPLICATION NUMBER: 08/664,856
FILING DATE: 17 JUN 1996
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
REGISTRATION NUMBER: 34,235
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
98/801,796
FILING DATE: 14-FEB-1997
APPLICATION NUMBER: 08/664,856
FILING DATE: 17 JUN 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 617-523-6440
TELEX: 200291 STRE
INFORMATION FOR SEQ ID NO: 8:
SEGUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
PRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
Matches 24; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-069-484-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
```

```
US-09-369-744-9/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                              ö
                                                    Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                   1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                        1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
HANT-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
US-09-135-599-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE: US-09-135-599-4
                                                                                                                                           US-09-135-599-4/c
                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

24 ACCCTGACTGAAAGGTCAGCATTT 1

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
RESULT 13
US-09-369-744-8
is Sequence 8, Application US/09369744
j Patent No. 6300479
j GENERAL INFORMATION:
j TITLE OF INVENTION: PROTEIN AND LERE BAO
j TITLE OF INVENTION: PROTEIN AND USES THEREOF
j TITLE OF SEQUENCES: 13
c CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHWAN STATE: MA
COUTTY: BOSTON
COUTTY: USA
CITY: USA
CONTRY: USA
CITY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 9, Application US/09369744

Patent No. 6300479

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
TITLE OF INVENTION: PROTEIN AND USES THEREOF
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN
STREET: 130 WATER STREET
CITY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMFUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/369,744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
CLASSTRICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/801,796
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S
REGISTRATION NUMBER: 34,235
REGISTRATION NUMBER: 46507
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-6440
TELEPHONE: 617-523-640
TELERAX: 617-523-640
TELERAX: 617-523-640
TELERAX: 617-523-6410
TELERAX: 617-623-6410
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TATCAGCTAGTGGCTGCACCCGCG 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRAGMENT TYPE:

CRIGINAL SOURCE:
US-09-369-744-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: MA
```

```
Search completed: March 12, 2006, 00:52:48
Job time : 155 secs
                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 36 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-411-796-374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Polazzi, Joseph O.
APPLICANT: Thomas, John W.
TITLE OF INVENTION: Interleukin-3 (IL-3) Mutant Polypeptides
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 5.8%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 7.6e+02; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Dennis A. Bennett, G.D. Searle & Co., ADDRESSEE: Corporate Patent Dept.
STREET: P. O. Box 5110
ZIP: 02019
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FRASENCY Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/369,744
FILING DATE:
CLASSIFICATION NUMBER: US/09/369,744
FILING DATE:
APPLICATION NUMBER: US/09/369,744
FILING DATE:
APPLICATION NUMBER: 08/801,796
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RENICK S.
REGISTRATION NUMBER: 46507
TELEPHONE: 617-523-6440
TELEPHONE: 617-523-6440
TELEPHONE: 617-523-6440
TELEPHONE: CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: UNCORMINENS: single
STORMANDENNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bauer, S. C.
Braford-Goldberg, Sarah R.
Caparon, Maire H.
Easton, Alan M.
Klein, Barbara K.
MCKearn, John P.
Olins, Peter C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         356 ACCCTGACTGAAGGTCAGCATTT 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24 ACCCTGACTGAAAGGTCAGCATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-411-796-374/c
; Sequence 374, Application US/08411796
; Patent No. 5877149
; GENERAL INFORMATION:
; APPLICANT: Abrame, Mark A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: CDNA HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: P. O. BOX CITY: Chicago STATE: Illinois COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-09-369-744-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ሯ
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 5.0%; Score 20.4; DB 2; Length 36; Best Local Similarity 80.0%; Pred. No. 1.1e+04; Matches 24; Conservative 0; Mismatches 6; Indels
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/411,796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 TCTTCCTTCGAAGGAAACTATCCAGCAGGA 210
                                                                                             CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/981044
FILING DATE: 24-NOV-1992
PRIOR APPLICATION NUMBER: PCT/US93/11198
PILING DATE: 22-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Bennett, Dennis A.
REGISTATION NUMBER: 34,547
REFERENCE/DOCKET 34,547
TELECOMMUNICATION INFORMATION:
TELEFONE: (708)470-6501
TELEFONE: (708)470-6501
INFORMATION FOR SEQ ID NO: 374:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: DNA (synthetic)
```

THIS PAGE BLANK (USPTO)